

## LIST OF ACRONYMS AND ABBREVIATIONS

°C	degree Celsius	AC	alternating current
γ	gamma	ACC	Air Combat Command (USAF)
λ	lambda	ACCESS	advanced cosmic-ray composition experiment for space station
μ	micron	ACHR	acetylcholine receptor
μA	microampere	ACIPS	advanced collective integrated protection system
μF	microfarad	ACM	attitude control module
μJ	microjoule	ACT	active control technology
μJ/cm	microjoules per square centimeter	ACT/FHS	active control technology/flying helicopter simulator
μm	micrometer	ACTD	advanced concept technology demonstration
μsec	microsecond	ACTIVE	advanced control technologies for integrated vehicles
Ω	ohm	ACTS	Advanced Communication Technologies and Services
1-D	one-dimensional	ACVs	air cushion vehicles
2-D	two-dimensional	AD	air defense
3-D	three-dimensional	AdAPT	Adaptive Aircraft Performance Technology
3P	prefragmented, programmable, proximity	ADN	ammonium dinitramide
A	ampere	ADN	ammonium dinitrimide
Å	angstrom	ADP	adenosine diphosphate
A&EM	armaments and energetic materials	ADS	advanced distributed system
A/D	analog to digital	ADS	air defense suppression
A/O	acoustic/optic	ADSRC	Advanced Distributed Simulation Research Consortium
A/sec	amperes per second	ADTS	asynchronous digital transmission system
AAAV	advanced amphibious assault vehicle	AEDC	Arnold Engineering Development Center
AAN	Army After Next	AEOS	advanced electro-optical system
ABA	American Bankers Association	AES	advanced encryption standard
ABATE	ACTS Broadband Aeronautical Terminal and Experiment	AES	all-electric ship
ABCS	Army Battle Command System	AES	auger electron microscope
ABE	autonomous Benthic explorer	AETWG	Armaments and Energetic Materials Technology Working Group
ABEC	Annular Bearing Engineers Committee		
ABIS	Advanced Battlespace Information System		
ABL	airborne laser		
ABS	antilock braking system		

AEW	aircraft early warning	AIAA	American Institute of Aeronautics and Astronautics, Inc.
AFATDS	Advanced Field Artillery Tactical Data System	AICPA	American Institute of Certified Public Accountant
AFB	Air Force Base	AIM	Advanced INFOSE Machine
AFBMA	Anti-Friction Bearing Manufacturers Association	AIM	Air Intercept Missile
AFC	alkaline fuel cell	AIM™	Advanced INFOSEC Machine
AFIS	Automatic Fingerprint Identification System	AIN	aluminum indium nitride
AFIT	Air Force Institute of Technology	AIP	air-independent power
AFM	atomic force microscopy	AIP	air-independent propulsion
AFOSR	Air Force Office of Scientific Research	AISI	American Iron and Steel Institute
AFOSR/EOARD	Air Force Office of Scientific Research/European Office of Aerospace Research and Development	AIST	Agency of Industrial Science and Technology (Japan)
AFRL	Air Force Research Laboratory	AIWS	advanced interdiction weapon system
AFRL/PR	Air Force Research Laboratory/Propulsion Directorate	AJ	anti-jam
AFS	atomic frequency standard	AL	Albania
AFSAB	Air Force Science Advisory Board	Al-Li	aluminum-lithium
AFSOC	Air Force Special Operations Command	ALPS	assembly-line processing system
AFSPC	Air Force Space Command	ALU	arithmetic logic unit
AFV	armored fighting vehicle	AM	antimaterial
AG	Australia Group	Am	americium
Ag	silver	AM	amplitude modulation
AGARD	Advisory Group for Aerospace Research and Development	AMB	active magnetic bearings
AGB	advanced gun barrel	AM0	air mass zero
AgGaSe2	silver gallium selenide	AM1.5	air mass 1.5
AGL	above ground level	AMC	Army Materiel Command
AGMA	American Gear Manufacturers Association	AMC	Air Mobility Command (USAF)
AGR	advanced gas reactor	AMCOM	U.S. Army Aviation and Missile Command
AGT	aboveground test	AMD	antimissile defense
AGT	advanced gun technology	AMGS	advanced material gun system
Ah	ampere-hour	AMMO	azidomethylmethyloxetane
AHRS	attitude and heading reference system	AMP	adenosine mono-phosphate
AHS	automated highway system	AMR	amorphous magnetoresistive
AI	artificial intelligence	AMRAAM	advanced medium-range air-to-air missile
		AMRL	Aeronautical and Maritime Research Laboratory (Australia)
		AMR	amorphous magnetoresistive
		AMTEC	alkali metal thermal-to-electric converter
		AMTI	airborne moving target indication

amu	atomic mass unit	ARTEMIS	Advanced Relay and Technology Mission Satellite
AN	ammonium nitrate	As	arsenide
ANL	Argonne National Laboratory	A-S	antispoofing
ANMO	azidonitratomethyloxetane	AS4/T-500	carbon filter designations
ANN	artificial neural network	ASARS	Advanced Synthetic Aperture Radar Systems
ANNG	Anti-Navire Nouvelle Génération	ASC	Accredited Standard Committee
ANSI	American National Standards Institute	ASCM	advanced spaceborne computer modular
ANTEC	alkali-metal thermal-to-electrical converter	ASCM	antiship cruise missile
AOC	air operations center	ASDL	Aerospace Systems Design Laboratory (Georgia Institute of Technology)
AP	access point	ASDL	asymmetrical digital subscriber line
AP	ammonium perchlorate	ASE	amplified spontaneous emission
AP	antipersonnel	a-Si	amorphous silicon
AP	armor piercing	ASIC	application-specific integrated circuit
APAM	antipersonnel/antimaterial	AS-15s	Russian cruise missile
APB	antimatter particle beam	ASMD	antiship missile defense
APC	armored personnel carrier	ASRI	Australian Space Research Institute
APDU	Application Protocol Data Units	ASRP	Adaptive Spectral Reconnaissance Program
APFSDS	armor piercing, fin-stabilized, discarding sabot	ASTAMIDS	airborne stand-off minefields detection system
APG	Aberdeen Proving Ground (Maryland)	ASTM	American Society for Testing and Materials
APG	automated password generator	ASTMP	Army Science and Technology Master Plan
APGM	autonomous precision-guided munition	ASTWG	Aeronautics Systems Technology Working Group
API	application program interface	ASUW	antisurface warfare
APOD	aerial port of debarkation	ASW	antisubmarine warfare
APPN	IBM's Advanced Peer-to-Peer Networking®	AT	antitank
APS	active protection system	AT	Austria
APS	advanced photon source	ATA	Advanced Technology Attachment
APS	American Physical Society	ATAC	Advance Technology Aircraft
AR	Argentina	ATACMS	Army Tactical Missile System
Ar	argon	ATACS	advanced tank cannon system
ARDEC	Army Research, Development, and Engineering Center	ATAR	Advanced Technology Assessment Report
ArF	argon fluoride	ATC	air traffic control
ARL	Army Research Laboratory		
ARO	Army Research Office		
ARPA	Advanced Research Project Agency		

ATCC	American type culture collection	BASS	bulk avalanche semiconductor switch
ATD	advanced technology demonstration	BAT	brilliant antitank
ATD	Advanced Technology Development	BATES	Battlefield Artillery Target Engagement System
ATE	automatic test equipment	BCIS	battlefield combat identification system
ATF	automatic terrain following	BCMO	bischloromethyloxetane
ATGW	antitank guided weapon	BDA	battle damage assessment
ATIC	advanced thin ionization calorimeter	BDNPA	bis(2,2-dinitropropyl) formal and acetal
ATIP	Asia Technical Information Program	BDNPF	bis(2,2-dinitropropyl) formal
ATIRCM	advanced tactical infrared countermeasures	BDU	battle dress uniform
ATL	advanced tactical laser	BE	Belgium
ATM	asynchronous transfer mode	BEAMTAP	Broadband and Efficient Adaptive Method for TTD Array Processing
ATM	automated teller machine	BEC	Bose-Einstein condensates
ATP	adenosine triphosphate	BER	bit error rate
ATR	air turbo ramjet	BFV	Bradley fighting vehicle
ATR	automatic target recognition	BG	Bulgaria
AU	Australia	BGO	bismuth germanate
Au	gold	BHEGA	bis-2-hydroxyethylglycolamide
AUTODIN	Automatic Digital Network	BHP	brake horsepower
AUV	autonomous underwater vehicle	BICMOS	bipolar complementary metal oxide semiconductor
AUV	autonomous unmanned vehicle	BIDS	biological integrated detection system
AVIRIS	airborne visible/infrared imaging spectrometer	BIFF	battlefield identification friend or foe
AVLIS	atomic vapor laser isotope separation system	BIT	broadband information technology
AVS	automated vapor sampling	BIT	bismuth titanate
AW	advanced weapons systems	BITA	butylene imine trimesamide (polyfunctional aziridine amides with isophthalic, trimesic)
AWACS	Airborne Warning and Control System	BITE	built-in-test-equipment
B	magnetic induction	BITS	binary digits
B/C	biological and chemical	BITWG	Biological Technology Working Group
Ba	barium	BJT	bipolar junction transistor
BACT	best available control technology	BL	biosafety level
BAMO	bis(azidomethyl)oxetane	BLOS	beyond line of sight
BAPO	phosphine oxide	BLSR	bidirectional line-switched ring
bar	0.987 atmospheres	BLU 80/B	Bigeye Weapon
BASE	beta alumina solid electrolyte	BMD	Ballistic Missile Defense

BMDO	Ballistic Missile Defense Organization (now MDA)	C3	command, control, and communications
BN	boron nitride	C3CM	command, control, and communications countermeasures
BNCP	cis-bis(5-nitrotetrazolato) pentaamminecobalt (iii) perchlorate	C3I	command, control, communications, and intelligence
BNMO	bis(nitratomethyl)oxetane	C4	command, control, communications, and computation
BNO	butadienitrileoxide	C4I	command, control, communications, computers, and intelligence
BOBBA 8	bis(2-methyl aziridiny)-2-(2-hydroxypropanoxy)propylamino phosphine oxide	C4I2	command, control, communications, computing, intelligence, and information systems
BOL	beginning of life	C4IFTW	C4I for the warrior
BOOM	binocular omnidirectional-oriented monitor	C4ISR	C4I, surveillance, and reconnaissance
BOSS	bistable optically controlled semiconductor switch	CA	Canada
BP	black powder	CA	Certification Authority
bps	bits per second	CAA	Clean Air Act
BR	bacteriorhodopsin	CAA	Concepts Analysis Agency (Army)
BR	Brazil	CAC	common access card
BRDF	bidirectional reflectance distribution function	CAD	chemical agent detector
BRM	biological response modifier	CAD	computer-aided design
BRWL	bistatic radar for weapon location	CAE	common application environment
BSC	biological safety cabinet	CAE	computer-aided engineering
BTJ	buried triple junction	CAEP	China Academy of Engineering Physics
BTTN	butanetrioltrinitrate	CAEPE	Centre d'Achèvement et d'Essais des Propulseurs et Engins
BTU	British thermal unit	CAG	carrier aircraft group
BTU/ft <sup>2</sup>	BTU per square foot	CAI	computer-aided inspection
BuNENA	butyl-2-nitratoethyl nitramine	cal	calorie
BV	battlefield visualization	cal/cm <sup>2</sup>	calories per square centimeter
BVP	blood volume pressure	cal/cm <sup>2</sup> -sec	calories per square centimeter second
BVR	beyond visual range	CAM	chemical agent monitor
BW	biological weapon(s)	CAM	computer-aided manufacturing
BWB	blended wing/body	CANDU	Canadian deuterium uranium (reactor)
BWC	Biological Weapons Convention	CAP	combat air patrol
BWO	backward wave oscillator	CAPI	cryptographic application interface
BWR	boiling water reactor	CARC	chemical agent resistant coating
C	Celsius temperature; centigrade	CASA	Construcciones Aeronauticas S.A. (Spain)
C/A	course acquisition		
C2	command and control		
C2I	command, control, and intelligence		

CAS	Chemical Abstract Service	CCS	common channeling signaling
CAS	close air support	CCTV	closed-circuit television
CAS	computer-aided servicing	CCW	counter-clockwise
CAS/M	computer-aided servicing/ maintenance	Cd	cadmium
CAT	computer-aided testing	CD	compact disk
CAT	computerized axial tomography	CD	Compton diode
CATOX	catalytic oxidation	CD	critical diameter
CATT	controlled avalanche transit-time triode	CD	critical dimension
CATTB	Component Advanced Technology Test Bed	CDC	Centers for Disease Control and Prevention
CAV	common aero vehicle	CdHgTe	cadmium mercury telluride
CAVE	computer automatic virtual environment	CDISS	Centre for Defence and International Security Studies
CB	coherent bremsstrahlung	CDL	chemical double layer
CB	chemical and biological	CDMA	code division multiple access
CBC	cipher block chaining	CDPD	Cellular Digital Packet Data
CBDCOM	Chemical Biological Defense Command (Army)	CD-ROM	compact-disc read-only memory
CBEFF	Common Biometric Exchange File Format	CDs	Compton diodes
CBM	conventional ballistic missile	CDT	critical developing technology
c-BN	cubic boron nitride	CdTe	cadmium telluride
CBPS	chemically and biologically protected shelter	CDU	control and display unit
CBRIF	Chemical Biological Incident Response Force	CdZnTe	cadmium zinc telluride
CBRN	Chemical, biological, nuclear and radiological weapons	CE	chemical energy
CBW	chemical and biological warfare	CE	computing element
CC	combinatorial chemistry	CEA	Commissariat à l'Énergie Atomique (The French Atomic Energy Commission)
c c	cubic centimeters	CEC	California Energy Commission
C-C	carbon-carbon	CEC	Cooperative Engagement Capability
CCD	charge-coupled device	CECOM	Communications-Electronics Command (Army)
CCD	closed-cycle diesel	CEM	computational electromagnetics
CCITT	International Consultative Committee for Telephone and Telegraph	CEP	circular error probable; circle of equal probability
CCL	Commerce Control List	CEPT	Conference of Postal and Telecommunications Administration
CCM	computer-controlled machines	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CCM	counter-countermeasures	CEREM	Le Centre d'Études et de Recherches sur les Matériaux
CCMS	Committee on the Challenges of Modern Society (NATO)		

CERT	Computer Emergency Response Team	CIS	copper indium diselenide
CFB	cipher feedback	CISC	complex instruction set computing
CFC	chlorofluorocarbon	CIWG	Combat Identification Working Group
CFD	computational fluid dynamics	CJ	commodity jurisdiction
CFHAT	composite fire hazard analysis tool	CJCSI	Chairman, Joint Chiefs of Staff Instruction
CFIT	controlled flight into terrain	CKEM	compact kinetic energy missile
CFL	coupled ferrite lines	CL	Chile
CFRP	carbon-fiber-reinforced plastic	CL-14	5,7-diamino-4,6-dinitrobenzofurazane-1-oxide
CGA	column grid array	CL-20	hexanitrohexaazaisowurtzitane
CGA	computer-generated actor	CL-20/HNIW	hexanitro-hexaazaisowurtzitane
CH	Switzerland	CLC	cholesteric liquid crystal
CHEMEX	chemical exchange process	CLO	counter low observable
CHER	catalytic heat exchanger/reactor	CLOS	command-line-of-sight
CHESS	Cornell High-Energy Synchrotron Source	CLT	critical layer thickness
CHIPS	Clearing House Interbank Payments System	CM	configuration management
CHPS	Combat Hybrid Power Systems	CM	countermeasures
CHSSI	Common High Performance Computing Software Support Initiative	cm	centimeter
CHTWG	Chemical Technology Working Group	CMC	ceramic matrix composite
CIAC	Computer Incident Advisory Capability	CMIP	common management information protocol
CIAM	Central Institute of Aviation Motors (Russia)	CMIS	Center for Mathematical and Information Sciences (Australia)
CIC	combat information center	CMISE	common management information service element
CICA	Canadian Institute of Chartered Accountants	CMM	coordinate measuring machine
CID	charge injection device	CMOL	CMIP over logical link control
CID	combat identification	CMOS	complementary metal oxide semiconductor
CIDDS	combat identification dismounted soldier	CMOT	common management information service over TCP/IP
CIF3	chlorine trifluoride	CMOT	complementary metal oxide technology
CINO	Office of the Chief Inspector of Naval Ordnance (United Kingdom)	CMP	chemical mechanical planarization
CIP	cold isostatic pressing	CMST	common management information services over TCP/IP
CIP	cold isostatic press	CMU	Carnegie Mellon University
CIP	carbonyl iron powder	CMVP	Cryptographic Module Validation Program
CIRSC	Computer Security Incident Response Capability	cmW	centimeter wave
CIRST	Computer Incident Response Team	CMW	centimeter wave
		CN	China



CNA	Center for Naval Analyses	CPCI	Computer program configuration item
CNC	computer numeric(al) control	CPE	customer premises equipment
CNE	Centre National d'Études Spatiales (France Space Agency)	CPS	Certificate Policy Statement
CNM	customer network management	CPU	central processing unit
CNO	Chief of Naval Operations	CR	channeling radiation
CNRM	Centre National de Recherches Météorologiques	CR	Czech Republic
CNRS	Centre National de Recherche Scientifique	CRAD	contract research and development
CNS	central nervous system	CRDA	commercial research and development agreement
CNT	carbon nanotube	CREATIS	Centre de Recherche et d'Applications en Traitement de l'Image et du Signal (Center for Research and Applications in Image and Signal Processing)
CNT	Counterspace		
CNTD	controlled nucleation thermal decomposition	CREB	cyclic AMP response element binding
CO	carbon monoxide	CRÈME	cosmic ray effects on micro-electronics
CO	central office	CRL	Communications Research Laboratory (Japan)
CO	Colombia	CRM	corrosion-related magnetic
CO	commanding officer	CRT	cathode-ray tube
CO <sub>2</sub>	carbon dioxide	CRW	Canard Rotor Wing
Co-60	Cobalt-60	CRYPTO	cryptographic
COBRA	collection of broadcasts from remote assets	CS	Czechoslovakia
COC	combat operations center	CSE	Communications Security Establishment
COCOM	Coordinating Committee for Multilateral Strategic Export Controls	CSERIAC	Crew System Ergonomics Information Analysis Center
COI	Communities of interest	CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
COIL	chemical oxygen iodine lasers	CSIS	Center for Secure Information Systems (George Mason University)
COLEX	column exchange	CSNSM	Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse
COM/SATCOM	communications/satellite communications	CSP	chip-scale packaging
COMINT	communication intelligence	CSU	channel service unit
COMM	communication	CT	computerized tomography
COMSEC	communications security	CT	Computed Tomography
CONUS	Continental United States	CTA	column and grid array
CO-OP	Consortium for Optical and Optoelectronic Technologies in Computing	CTBT	Comprehensive Test Ban Treaty
COP	common operational picture	CTE	coefficient of thermal expansion
COTS	commercial off-the-shelf		
CP	2-(5-cyanotetrazolato) penta-amine-cobalt (iii) perchlorate		
CPB	charged particle beam		



CTIS	central tire inflation system	DCE	distributed computing environment
CTP	common tactical picture	DCID	Director Central Intelligence Directive
CTP	composite theoretical performance	DCN	data communication networks
CTP	computer theoretical performance	DCOR	deterministic combat model code
CTPB	carboxyl-terminated polybutadiene	DCS	digital cross-connect systems
CTWS	case telescoped weapon system	DD/DT	deuterium deuterium/deuterium tritium
Cu	copper	DDL	data description language
CU	Cuba	DDOS	distributed denial of service
CURV	cable-controlled underwater recovery vehicle	DDR&E	Director of Defense Research & Engineering
CVD	chemical vapor deposition	DDT	deflagration to detonation transition
CVDS	continuous variable dynamic system	DDUS	Deep Depth UNDEX Simulator
CW	chemical warfare	DE	directed energy
CW	chemical weapon(s)	DE	discrete event
CW	clockwise	DE	Germany (ISO)
CW	continuous wave	DE ATAC	Directed Energy Advanced Technology Aircraft
CWC	Chemical Weapons Convention	DEA	data encryption algorithm
CXRD	coaxial X-ray diode	DECADE	DNA X-ray simulator program
CZ	convergence zone	DECON	decontamination
D	deuterium	DEDS	discrete event dynamic system
D*	spectral detectivity	deg/hr	degrees/hour
D/A	digital to analog	DEMO	demonstration
D <sub>2</sub> O	deuterium oxide (heavy water)	DEMP	dispersed electromagnetic pulse
DAB-P	digital audio baseband processor	DERA	Defence Evaluation and Research Agency (United Kingdom)
DAC	digital to analog converter	DERA	Defence Evaluation and Research Agency (UK)
DAF	diaminofarazan	DES	data encryption standard
DARO	Defense Airborne Reconnaissance Office	DES	distributed energy store
DARPA	Defense Advanced Research Projects Agency	DET	distributed explosive
DAS	defensive aid suite	DEW	directed energy weapon
DATB	diaminotrinitrobenzene	DF	deuterium fluoride
d B	decibel	DF	difluor: methyl phosphonyl difluoride
DBC	direct bonded copper	DFAD	digital feature analysis data
DBD	delayed breakdown device	DFE	diferrocenylethane
dBm	decibel referred to 1 milliwatt	DFE	direction-finding equipment
DBR	distributed Bragg reflectance	DGA	Direction Générale de l'Armement (French Defense Procurement Agency)
DBRN	data-based referenced navigation		
DC	direct current		
DCC	digital cross-connect system		

DGNSS	differential global navigation satellite system	DMSO	dimethyl sulfoxide
DGPS	differential Global Positioning System	DN	bearing bore in mm multiplied by speed in rpm
DGZ	designated ground zero	DNA	Defense Nuclear Agency (now part of DTRA)
DH	Diffie-Hellman	DNA	deoxyribonucleic acid
DHG	oxalohydroxamic acid	DNGU	dinitroglycoluril
DHHS	Department of Health and Human Services	DNHR	dynamic nonhierarchical routing
DHV	Demonstrateur Hyper Veloce (Aerospatiale missile)	DNS	Doppler Navigation System
DIA	Defense Information Agency	DNS	Domain Name System
DIAL	differential absorption LIDAR	DNSS	Defense Navigation Satellite System
DIC	dispositif d'identification au combat	DOB	depth of burst
DIMES	Delft Institute of Microelectronics and Submicron Technology (Netherlands)	DOC	Department of Commerce
DINGU	dinitroglycoluril	DoD	Department of Defense
DIPAM	diaminohexanitrobiphenyl	DODD	Department of Defense Directive
DIRCM	defensive infrared countermeasures	DoDI	Department of Defense Instruction
DIS	distributed interactive simulation	DOE	Department of Energy
DISA	Defense Information Systems Agency	DOF	depth of focus
DIVX	digital video express	DOJ	Department of Justice
DIW	detection, identification, warning	DOS	Denial of Service [attack]
DK	Denmark	DOS	Department of State
DKTWG	Directed Energy and Kinetic Energy Technology Working Group	DOT	Department of Transportation
DL	Discrete logarithm	DQ	detection quotient
DLC	diamond-like carbon	DRAM	dynamic random access memory
DLC	digital loop carrier	DRBG	Deterministic random bit generator
DLC	drop loop carrier	DRDO	Defence Research and Development Organisation (India)
DLL	dynamic link library	DRE	Defence Research Establishment
DLR	Deutsche Forschungsanstalt für Luft und Raumfahrt (German Aerospace Center)	DREAM	directed radio-frequency energy-assessment model
DLR	German Aerospace Center	DRES	Defense Research Establishment Suffield (Canada)
DME	distance-measuring equipment	DREV	Defence Research Establishment Valcartier (Canada)
DML	data modification language	DRM	dead-reckoning module
DMS	Defense Messaging System	DRM	Digital Rights Management
DMS	diluted magnetic semiconductors	ds	digital signature
		DS	digital signals
		DS	directionally solidified
		DS-0	digital signal level 0
		DSA	digital signature algorithm

DSA/DH	Digital Signature Algorithm – Diffie-Hellman	E/O	electro/optical
DS-I	digital signal level 1	EA	electronic attack
DSL	digital subscriber line	EAA	Export Administration Act
DSMAC	digital scene matching area correlation	EADS	European Aeronautic Defense and Space Company
DSMP	Defense Meteorological Satellite Program	EAL	evaluation assurance level
DS-N	digital signal hierarchy	EAR	Export Administration Regulations
DSP	Defense Support Program	EB	electron beam
DSP	digital signal processor (processing)	EBDW	electron-beam direct writer
DSRO	Defense Science Research Organization (India)	e-beam	electron beam
DSS	Digital Signature Standard	EBPVD	electron-beam physical vapor deposition
DSTL	Developing Science and Technologies List	EBR-II	Experimental Breeder Reactor II
DSTO	Defense Science and Technology Organization (Australia)	EC	electronics and countermeasures
DSU	data service unit	EC	European Commission
DSV	deep submersible vehicle	ECAAM	electrochemically assisted arc machine
DT	deuterium tritium	ECAE	equal channel angular extension
DTAP	Defense Technology Area Plan	E-Cash	electronic cash
DTE	data terminal equipment	ECB	Electronic Codebook
DTED	digital terrain elevation data	ECC	elliptic curve cryptography
DTG	dry-tuned gyroscope	ECCM	electronic counter-counter measures
DTG	dynamically tuned gyroscope	ECCN	Export Control Classification Number
DTIC	Defense Technical Information Center	ECD	Eurocopter Deutschland
DTO	Defense Technology Objective	ECDSA	elliptic curve digital signature algorithm
DTR	data transfer rate	ECM	electronic countermeasure
DTRA	Defense Threat Reduction Agency	ECMWF	European Centre for Medium-Range Weather Forecasts
DU	depleted uranium	ECR	electron cyclotron resonance
DU	digitized unit	ECS	electrostatic chucks
DUV	deep ultraviolet	ED	electric drive
DVD	digital video disk	EDFA	erbium doped/fiber amplifier
DZ	Algeria	EDM	electrical discharge machines
E	energy	EDO	extended data out
$e$	limit of $\left(1 + \frac{1}{n}\right)^n$ as $n$ approaches infinity	EDP	electric dipole potential
e.b.b	equivalent blackbody	EDP	electric dipole-produced
		EEC	European Economic Community
		EEG	electroencephalogram
		EELV	evolved expendable launch vehicle

EEPROM	electrically erasable programmable read-only memory	EMS	Energy-Management System
EES	Escrowed Encryption Standard	EMK	electromagnetic weapon
EFF	Electronic Frontier Foundation	ENA	energetic neutral atom
EFP	explosively formed penetrator	ENTWG	Energy Systems Technology Working Group
EFPI	extrinsic Fabry-Perot interferometer	EO	electro-optical
EG	Egypt	E <sub>o</sub>	sublimation energy
EGI	embedded Global Positioning System inertial	EO-1	Earth Orbiter-1
EGM	Earth gravitational model	EO-2	Earth Orbiter-2
EGNOS	European Geostationary Navigation Overlay Service	EOCCM	electro-optical counter-counter-measures
EHF	extremely high frequency	EOCM	electro-optical countermeasures
EIA	Electronic Industries Association	EOD	explosive ordnance disposal
EID	electromagnetic induction detection	EOL	end-of-life
ELAPS	equivalent laminated plate solution	EOS	equation of state
ELEX	electro-exchange	EP	electronic protection
ELF	extremely low frequency	EPA	Environmental Protection Agency
ELFE	extremely low-frequency electromagnetic	EPC	electronic power conditioner
ELFE	extremely low-frequency emission	EPLRS	enhanced position location reporting system
ELINT	electronic intelligence	EPR	electron paramagnetic resonance
ELPRS	enhanced position location reporting system	EPRI	Electric Power Research Institute
ELTWG	Electronics Technology Working Group	EPROM	erasable programmable read-only memory
EM	electromagnetic	EPS	environmental protection system
EMC	electromagnetic compatibility	ER	electro-rheological
EMCDB	elastomer modified-cost double-based propellants	ERA	explosive reactive armor
EMD	engineering and manufacturing development	ERC	Energy Research Corporation
EMHD	explosive magnetohydrodynamic	ERCIM	European Research Consortium for Information and Mathematics
EMHDG	explosive magnetohydrodynamic generator	ERINT	Extended Range Interceptor
EMI	electromagnetic induction	EROS	Earth Resources Observation Systems
EMI	electromagnetic interface	ERP	effective radiated power
EMI	electromagnetic interference	ERS	electrically reconfigurable ship
EMIS	electromagnetic isotope separation	ERS-1	Earth Research Satellite
EMK	electromagnetic	ES	electronic suppression
EML	electromagnetic launch	ESA	electronic safe and arm
EMP	electromagnetic pulse	ESA	European Space Agency
		ESD	electrostatic discharge
		ESF	energy storage flywheel
		ESG	electrostatically supported gyroscope

ESL	equivalent series inductance	F3I	form, fit, function, and interchangeable
ESM	extended scattering mode	FA	functional areas
ESM	electronic support measure	FAA	Federal Aviation Administration
ESO	European Southern Observatory	FAC	fast-acting closure
ESPRIT	European Strategic Program on Research in Information Technology	FAC	forward air controller
ESR	equivalent series resistance	FACE	Futur Avion de Combat Européen (French aircraft)
ESRP	European Supersonic Research Program	FACETS	flywheel attitude, control, energy transmission, and storage
ESSM	Evolved Sea Sparrow Missile	FADEC	full authority digital electronic engine controls
ET	electrothermal	FADS	flush air data aystem
ETC	electrothermal-chemical	FAE	fuel-air explosives
ETDL	Electronic Technology and Devices Laboratory	FALCON	fuel-air line charge ordnance neutralizer
ETH	Eidgenössisches Technische Hochschule	FAR	false acceptance rate
ETK	electrothermal gun	FAR	false-alarm rate
ETNO	European Telecommunications Network Operators	FAST	field-adaptable systems technology
ETS	Engineering Test Satellite	FBCB2	Force XXI Battle Command Brigade-and-Below
ETS	engineering test stand	FBI	Federal Bureau of Investigation
ETSI	European Telecommunications Standards Institute	FBL	fly-by-light
EU	Eötvös unit	FBL/PBW	fly-by-light/power-by-wire
EU	European Union	FBM	fleet ballistic missile
EUCLIDES	Extreme UV Concept Lithography Development System	FBW	fly-by-wire
EURESCOM	European Institute for Research and Strategic Studies in Telecommunications	FCC	Federal Communications Commission
EUT	end user terminal	FCG	flux-compression generator
EUV	extreme ultraviolet	FCS	flight control system
EUVL	extreme ultraviolet lithography	FCV	future combat vehicle
eV	electron volt	FDA	Food and Drug Administration
EV	electronic vehicle	FDDI	fast digital data interconnect
EVA	extravehicular activity	FDIR	fault detection, isolation, and recovery
EVM	environmental vapor monitor	FDM	frequency division multiplexing
EW	electronic warfare	FDTD	finite difference time domain
F	Fahrenheit	FEA	finite element analysis
F	farad	FEBA	forward edge of the battle area
f/max	maximum frequency	FEFO	bis-2-fluoro-2,2-dinitroethylformal
f/min	minimum frequency	FEL	free electron laser
		FEMA	Federal Emergency Management Agency

FET	field effect transistor	FPKI	Federal Public Key Infrastructure
FFI	Forsvarets Forsknings Institutt	fps	feet per second
FFRDC	Federally Funded Research and Development Center	FR	France
FFT	fast Fourier transform	FRP	Federal Radionavigation Plan
FGAN	Forschungsgesellschaft für Angewandte Naturwissenschaften e.V.	FRP	fiber-reinforced plastic
FHA	Federal Highway Administration	FRR	false-rejection rate
FHS	flying helicopter simulator	FSAP	full-spectrum attack protection
FI	Finland	fsec	femtosecond
FIB	focused ion beam	FSCS	Future Scout and Cavalry System
FID	flame ionization detector	FSS	frequency selective surface
FIFV	future infantry fighting vehicle	FSU	Former Soviet Union
FIPS	Federal Information Processing Standard	FTA	Foreign Technology Assessment
FIR	far infrared	FTIR	Fourier transform infrared
FIS	field ion spectrometry	FTIT	fan turbine inlet temperature
FIV	future infantry vehicle	ft-lb	foot-pound
FLAR	forward-looking automotive radar	FTW	for the warrior
FL	field LADAR	FVTD	finite volume time domain
FLC	ferroelectric liquid crystal	FWHM	full width at half maximum
FLIR	forward-looking infrared radar	FXR	flash X ray
FLS	forward-looking sonar	FY	Fiscal Year
FM	field manual		
FM	frequency modulation	g	gram
FMM	Fast Multi-pole Method	g	measure of acceleration of gravity [32 feet per second <sup>2</sup> (9.8 m/second <sup>2</sup> )]
fMRI	functional magnetic resonance imaging	G agents	nerve agents
FMS	foreign military sales	G&G	geodetic and geophysical
FMS	force modeling and simulation	G-7	group of seven industrial nations
FOC	final operating capability	G-8	G-7 nations plus Russia
FOG	fiber-optic gyroscope	Ga	gallium
FOGM	fiber-optic guided missile	GA	tabun (nerve agent)
FOPEN	foliage penetration	GaAs	gallium arsenide
FORTÉ	fast on-orbit recording of transient events	GABA	gamma-aminobutyric acid
FOV	field of view	Gal	Galileo
FPA	focal plane array	GAM	GPS-aided munition
FPD	flame photometric detector	GaN	gallium nitride
FPD	flat panel display	GAO	General Accounting Office
FPE	fluoropolyester	GAP	glycidylazide polymer
FPGA	field programmable gate-array	GAUSS	Global Augmentation for Satellite Systems
		GB	sarin (nerve agent)
		Gbits/s	gigabits per second
		GBL	ground-based laser

GBq	gigabecquerel	GR	Greece
GC	gas chromatography	GRACE	Gravity Recovery and Climate Experiment
GCCS	global command and control system	GRC	John H. Glenn Research Center at Lewis Field [NASA (formerly the Lewis Research Center)]
GCHQ	Government Communications Headquarters, UK	GRMS	gravity root mean square
GD	soman (nerve agent)	GRP	glass-reinforced plastic
GDP	gross domestic product	GS	ground systems
GDSS	group decision support system	GSA	General Services Administration
Ge	germanium	GSAC	gas seal auxiliary closure
GE	Germany	GSC-IS	Government Smart Card-Interoperability Specification
GEO	geosynchronous Earth orbit	GSFC	Goddard Space Flight Center
GeV	giga electron volts	GSI	Gesellschaft für Schwerionenforschung mbH
GF	Galis Field	GSLV	geosynchronous satellite launch vehicle
GFE	government-furnished equipment	GSM	global system for mobile communication
GFLOPS	giga (10 <sup>9</sup> ) floating point operations per second	GSR	galvanic skin response
GHz	gigahertz (10 <sup>9</sup> hertz)	GST	glutathione S-transferase
GHz/sec	gigahertz per second	GSTAMIDS	ground standoff mine detection system
GIG	global information grid	GSTS	Ground Station Tailoring System
GIS	Geographic Information System	GSTWG	Ground Systems Technology Working Group
GLONASS	Global Orbiting Navigation Satellite System (Russian)	GTD	geometric theory of diffraction
GLONASST	GLONASS system time	GTE	gas turbine engines
GM	Geodetic Mission (GEOSAT)	GTN	General Technology Note
gm	gram	GTO	gate turn-off
GMCC	ground mobile command center	GTO	geosynchronous transfer orbit
GMP	good manufacturing practices	GUI	graphical user interface
GMR	giant magnetoresistive	GVC	ground combat vehicle
GMTI	ground moving-target indication	GW	gigawatt
GNSS	Global Navigation Satellite System	Gy	Gray (gy) is a unit of absorbed dose of ionizing radiation equal to 1 joule per kilogram of absorber
GOPS	giga (billion) operations per second	H	hour
GOST	Gosudarstvennyi Standard	HA	hemagglutinin
GP	genetic polymorphism	HAB	high-altitude burst
GPa	gigapascals	HAN	hydroxylamine nitrate
GPA	one megabar	HAN	hydroxylammonium nitrate
GPC	general-purpose computer		
GPIC	general-purpose integrated circuit		
GPR	ground-penetrating radar		
GPS	Global Positioning System		
GpTs	Global Positioning and Time System		



HAP	hazardous air pollutant	HHS	Health and Human Services
HAP	hydroxylammonium perchlorate	HIIS	heavy ions in space
HARV	high alpha research vehicle	HIL	hardware-in-the-loop
HAWK	homing all the way killer	HIP	hot isostatic pressing
HAZMAT	hazardous materials	HIP	hot isostatic press
HBIW	hexabenzyl-hexaazaisowurtzitane	HIPER-KIDS	high-performance kiosk and desktop system
HBO	hyperbaric oxygen	HIPPI	high-performance peripheral interface
HBT	hetero-bipolar transistors	HITL	hardware-in-the-loop
HCI	human computer interface	HISTEC	high-stability engine-control (Boeing program)
HDDR	high-density digital recording	HK	Hong Kong
HDL	high-level development language	HLA	high-level architecture
HDO	singly deuterated water	HLA	major histo compatibility
HDTV	high-definition television	HLOS	horizontal line of sight
HE	high explosive	HMAC	hashing for message authentication
HE	human engineering	HMD	helmet-mounted display
HEAP	Human Effects Advisory Panel	HMMWV	high-mobility multipurpose wheeled vehicle
HEAT	high explosive antitank	HMO	health maintenance organization
HEDM	high-energy density material	HMX	cyclotetramethylene-tetranitramine
HEL	high-energy laser	HMX	Octogen
HEMP	high electromagnetic pulse	HNF	hydrazinium nitroformate
HEMP	high-altitude electromagnetic pulse	HNDT	holographic nondestructive testing
HEMT	high electron mobility transistor	HNIW	hexanitro-hexaazaisowurtzitane
HEO	highly elliptical orbit	HNO <sub>3</sub>	nitric acid
HEPA	high-efficiency particulate air	HNS	hexanitrostilbene
HERF	high-energy radio frequency	HOB	height of burst
HEST	High-Explosive Simulation Technique	HOE	holographic optical element
HET	horizontal emplacement test	hp	horsepower
HEU	highly enriched uranium	HPC	high-performance computing
HEV	hybrid-electric vehicles	HPC	high-pressure compressor
Hf	Hafnium (isomer)	HPCMO	High Performance Computer Modernization Office
HF	high frequency	HPCN	high-performance computing and networking
HF	hydrogen fluoride	HPE	high-power electronics
HF	hydrofluoric acid	HPG	homopolar generator
HFCG	helical flux compression generator	HPI	high-power impulse
HFET	heterostructure field-effect transistor	HPL	high-power laser
HfF <sub>4</sub>	hafnium fluoride	HPM	high-power microwave
HFIP	hexafluoroisopropanol		
HFSW	high-frequency sky wave		
Hg	mercury		
HgCdTe	mercury cadmium telluride		

HPSLT	High-Power Semiconductor Laser Technology Program	HYPR	Hypersonic Propulsion Technology Program (Japan)
HPVI	hypervelocity impact	HySET	Hydrocarbon Scramjet Engine Technology
HRG	hemispherical resonator gyroscope	HYSWAS	high-yield small waterplane area ship
HRR	high-range resolution	Hz	hertz
HRR-GMTI	high-range resolution ground moving- target indication	I/O	input/output circuit
HR-SEM	high-resolution scanning electron microscope	I2	image intensifier
HSCT	high-speed civil transport	I2L	integrated injection logic
HSD	high strength to density	I <sup>2</sup>	image intensification
HSDB	high-speed data bus	I <sup>2</sup> R	power
HSE	high-speed encryption	IA	Information Age
HSI	human systems integration	IA	information assurance
HSI	human systems interface	IAB	Internet Activities Board
HSI	hyperspectral imagery	IACR	International Association for Cryptographic Research
HSP	heat shock protein	IADS	integrated air defense system
HSR	High-Speed Research Program (NASA)	IAEA	International Atomic Energy Agency
HST	Hubble Space Telescope	IAEL	International Atomic Energy List
HST	hypersonic transport	IAG	International Association of Geodesy
HSTAMIDS	hand-held standoff mine detection system	IAI	Israeli Aircraft Industries
HTGR	high-temperature gas-cooled reactor	IALA	International Association of Lighthouse Authorities
HTL	host technical liaison	IBIA	International Biometric Industry Association
HTML	hypertext markup language	IBM	International Business Machines
HTO	singly tritiated water	IC	Iceland [IS - (ISO)]
HTPB	hydroxyl-terminated polybutadiene	IC	integrated circuit
HTS	high-temperature superconducting	IC	intelligence community
HTS	high-temperature synthesis	IC2-SIP	International Command and Control Systems Interoperability Project
HTT	horizontal tunnel test	ICAO	International Civil Aviation Organization
HTU	handheld terminal unit	ICBM	intercontinental ballistic missile
HU	Hungary	ICD	interface control document
HUD	head-up display	ICE	integrated command environment
HVAC	heating, ventilation, and air conditioning	ICO	Intelligent Combat Outpost
HVI	hypervelocity impact	ICR	intercooled recuperated
HVOF	high-velocity oxy-fuel	ICRGT	intercooled recuperated gas turbine
HVWS	Hypervelocity Weapon System		
HWR	heavy water reactor		
HY	high yield		

ICS	intercommunications system	IM&C	information system management and control
ICT	(Fraunhofer) Institute for Chemical Technology (Germany)	IMEC	Industrial Microelectronics Center
ICt	incapacitating concentration time	IMETS	Integrated Meteorological System
ID	identification	IMF	intelligent minefield
ID	incapacitating dose	IMINT	Imagery Intelligence
ID	Indonesia	IMPATT	impact avalanche transit-time triode
IDE	integrated drive electronics	IMS	ion mobility spectrometry
IDEA	International Data Encryption Algorithm	IMT	industrial materials and technology
IDL	interactive data language	IMU	inertial measurement unit
IDS	Intrusion detection system	in.	inch
IE	Ireland	IN	India
IEEE	Institute of Electrical and Electronic Engineers	In	indium
IEMP	internal EMP	INAV	integrated navigation
IETF	Internet Engineering Task Force	INCITS	International Committee for Information Technology Standards
IF	intermediate frequency	IND	improvised nuclear device
IFF	identification friend or foe	INFO COM	information communications
IFOV	instantaneous field of view	INFO EXCH	information exchange
IFS	indirect fire system	INFOSEC	information security
IFSAR	interferometric synthetic aperture radar	INFOSEC TWG	Information Security Technology Working Group
IFV	infantry fighting vehicle	INFOWAR	information warfare
IGEB	Interagency GPS Executive Board	InGaAs	indium gallium arsenide
IGBT	insulated gate bipolar transit	INMARSAT	International Marine/Maritime Satellite
IGBT	isolated gate bipolar transistor	INMS	integrated network management systems
IHAS	integrated helmet assembly subsystem	InP	indium phosphorus
IHCE	Institute of High Current Electronics (Russia)	INPASS	INS Passenger Accelerated Service System
IHE	insensitive high explosive	INS	Immigration and Nationalization Service
IHPRPT	Integrated High Payoff Rocket Propulsion Technology	INS	inertial navigation system
IHPTET	Integrated High Performance Turbine Engine Technology	InSb	indium antimonide
IIL	International Industrial List	Internet	international computer network
IL	Industrial List	INU	inertial navigation unit
ILL	Institut Max von Laue–Paul Langevin	IO	information operations
ILS	instrument landing system	IOM	Institute of Medicine
IM	insensitive munitions	Ip	impulse
IM	instant messaging	IP	Information processing
		IP	internet protocol

IP	isostatic pressing	ISS	International Space Station
IPC	intermediate-pressure compressor	ISSMO	International Society of Structural and Multidisciplinary Optimization
IPFN	integrated pulse-forming network	ISU	inertial sensor unit
IPN	Institut de Physique Nucléaire	IT	information technologies
IPR	impulse response	IT	Italy
IPS	integrated power system	$I_t$	total impulse
IQ	Iraq	ITAG	inertial terrain-aided guidance
IR	infrared	ITAR	International Traffic in Arms Regulations
IR	Iran	ITL	NIST's Information Technology Laboratory
IR&D	independent research and development	ITRF	International Terrestrial Reference Frame
IRA	impulse radiating antenna	ITS	Intelligent Transport System
IRAD	independent research and development	ITSEC	Information Technology Security Evaluation Criteria
IRCM	infrared countermeasures	ITTWG	Information Technology Technology Working Group
IRCOM	Institut de Recherche en Communications Optiques et Microondes	ITU	International Telecommunications Union
IRE	Institute of Radioengineering and Electronics (Russia)	IV	Initialization Vector
IRFPA	infrared focal plane array	IW	information warfare
IRIG	Interrange Instrumentation Group	IWG	Interagency Working Group
IRSS	Infrared Search System	IXC	interexchange carrier
IRST	infrared search and track	J	joule
IRU	inertial reference unit	J/cc	joules per cubic centimeter
IS	Iceland	J/gm	joules/gram
IS	information system	J/kg	joules per kilogram
ISA	Industry Standard Architecture	J/pulse	joules per pulse
ISA	inertial sensor assembly	JCS	Joint Chiefs of Staff
ISAR	inverse synthetic aperture radar	JDA	Japan Defense Agency
ISAS	Institute of Space and Astronautical Science (Japan)	JDAM	Joint direct attack munition
ISDN	integrated services digital network	JDIS	Joint Distributed Information System
ISIT	Fraunhofer Institute for Silicon Technology	JEM	Japanese Experiment Module
ISL	France-German Research Institute of Saint Louis	JFCC	Japan Fine Ceramics Center
ISO	International Standards Organization	JHU/APL	Johns Hopkins University/Applied Physics Laboratory
ISP	Internet Service Provider	JINR	Joint Institute of Nuclear Research
$I_{sp}$	specific impulse	JMA	Japan Meteorological Agency
ISR	intelligence, surveillance, and reconnaissance	JMAT	Joint Service Medium-Caliber Automatic Gun Technology Group
ISS	integrated sensor suite		

JNLWP	Joint Nonlethal Weapons Program	kcal	kilocalorie
JP	Japan	kD	kilodaltons
JP	jet propulsion	KDN	potassium dinitramide
JPEG	Joint Photographic Experts Group	KE	kinetic energy
JPL	Jet Propulsion Laboratory	KEM	kinetic energy missile
JPO	Joint Program Office	Keto-RDX	2,4,6-trinitro-2,4,6-triazacyclohexanone
JSB	Japan storage battery	keV	kilo electron volt
JSF	Joint Strike Fighter	KEW	kinetic energy weapon
JSFWC	Joint Staff Future Warfighting Capability	kG	kilogauss
JSLIST	Joint Service lightweight integrated suit technology	kg	kilogram
JSOW	Joint standoff weapon	kg/dm <sup>3</sup>	kilograms per cubic decimeter
JSRIM	Joint Services Requirement for Insensitive Munitions	kg/kW	kilogram per kilowatt
JSTARS	Joint Surveillance Target Attack Radar System	kg/N	kilogram/Newton
JSW	Joint standoff weapon	KGD	known good die
JT	joule-thomson	kHz	kilohertz
JTIDS	Joint Tactical Distribution Information System	kJ	kilojoule
JTMD	Joint Theater Missile Defense	KKV	kinetic kill vehicle
JTR	Joint Tactical Radio	KLEXT	K-mixing, low-energy, X-ray triggering
JTRS	Joint Tactical Radio System	km	kilometer
JUXOCO	Joint Unexploded Ordnance Coordination Office	km/sec	kilometers per second
JV	Joint Vision	kN	kilonewton
JWSTP	Joint Warfighting Science and Technology Plan	KOH	potassium hydroxide
k	magnetomechanical coupling+ factor	KP	North Korea
K	Kelvin temperature	kPa	kilopascal (0.00987 atmospheres)
K	thousand (kilo)	Kr	krypton
K-6	2,4,6-trinitro-2,4,6-triazacyclohexanone	KR	South Korea
kA	kiloamperes	krad(Si)	kilorads (in silicon)
kA/cm <sup>2</sup>	kiloamperes per cm <sup>2</sup>	KrF	krypton-fluoride
kA/ns	kiloampere per nanosecond	KRS	key recovery system
KAIST	Korea Advanced Institute of Science and Technology	KSHV	Kaposi Sarcoma HV
kbar	kilobar	ksi	thousand pounds per square inch
kbit	kilobit	kt	kiloton (yield)
kbps	kilobits per second	kT	kiloton
		KTA	potassium titanyl arsenate
		ktap	one thousand dyne centimeters per second
		KTP	potassium titanyl phosphate
		kV	kilovolt
		kV/cm	kilovolts per centimeter
		kV/m	kilovolts per meter

kV/mil	kilovolts per mil	LED	light-emitting diode
kV/mm	kilovolts per millimeter	LEED	low-energy electron diffraction
kV/ns	kilovolts per nanosecond	LEL	low-energy laser
KW	Kuwait	LEMP	lightning electromagnetic pulse
kW	kilowatt	LEO	low-Earth orbit
kWe	kilowatt (electric)	LETI	Laboratoire d'Electronique, de Technologie de l'Information (The Electronics and Information Technology Laboratory)
kWh/kg	kilowatt-hours per kilogram		
l	liter	LEU	low enriched uranium
<i>L</i>	water beam attenuation length	LFC	laminar flow control
l/d	length-to-diameter	LGG	light gas gun
L/D	lift/drag	LH2	liquid hydrogen
LAAS	local area augmentation system	Li	lithium
LADAR	laser detection and ranging	Li-ion	lithium-ion
LADAR	laser radar	LICA 12	neopentyl(diallyl)oxy-tri(dioctyl) phosphato titanate
LAER	lowest achievable emission reductions	LIDAR	light detection and ranging
LAN	local area network	LIHE	laser-initiated high explosive
LANL	Los Alamos National Laboratory	LIS	laser isotope separation
LANS	local area network system	LLI	Liebheer Aerospace Lindenberg
LASER	light amplification by stimulated emission of radiation	LLL	low light level
LASERCOM	laser communications	LLLTV	low light level TV
LAV	light armored vehicle	LLNL	Lawrence Livermore National Laboratory
lb/hp-hr	pounds per horsepower-hour	LLRC	low repetition rate capacitors
lb/kW	pounds per kilowatt	LLS	laser line scanner
LBNL	Lawrence Berkeley National Laboratory	LMDS	local multi-channel distribution service
LB/TS	large blast/thermal simulator	LMFBR	liquid metal fast breeder reactor
LC	liquid crystal	LMR	liquid metal reactor
LCAC	landing craft, air cushion	LMRS	long-term mine reconnaissance system
LCD	liquid crystal display	LMS	least mean square
LCI	load commutated inverter	LMT	large mmW telescope
LCP	liquid crystal polymer	LNA	low-noise amplifier
LCS	laser cross section	LNG	liquefied natural gas
LCt	lethal concentration time	LO	low observable
LD	lethal dose	LOCAAS	Low-Cost Antiarmor System
LDCs	lesser developed countries	LOCAAS	Low-Cost Autonomous Attack System
LE	low explosive	LORAN	long-range aid to navigation
LEAF	law enforcement access field	LOS	line of sight
LEC	local exchange carrier		
LED	laser-emitting diode		

LOSAT	line-of-sight antitank	m <sup>2</sup>	square meter
LOTWG	Lasers and Optics Technology Working Group	m <sup>3</sup>	cubic meter
LOVA	low-vulnerability ammunition	MA	mega-ampere
LOX	liquid oxygen	mA	milliamperere
LP	liquid propellant	MA	mobile assistant
LPCVD	low-pressure chemical vapor deposition	mA/cm <sup>2</sup>	milliamps per square centimeter
LPD	low probability of detection	MAb	monoclonal antibody
LPG	liquefied petroleum gas	MABS	military application of blast simulation
LPI	low probability of intercept	MAC	message authentication code
LPI/LPD	low probability of intercept/low probability of detection	MAC	modified auxiliary closure
LPT	low power transceiver	MAE	medium altitude endurance
LPTF	Laboratoire Primaire du Temps et des Fréquences	MAFET	Microwave and Analog Front-End Technology
LRC	inductor, resistor, capacitor	MAGIC	Multimission Advanced Ground Intelligent Control
LRERI	Lviv Radio Engineering Research Institute (Ukraine)	MAGLEV	magnetic levitated
LRF	laser range finder	MAGT	MOS-assisted gate thyristor
LRR	lower reposition rate	MAJCOM	Major Command (U.S. Air Force)
LRU	line replaceable unit	MALDI	matrix-assisted laser desorption ionization
LSTAT	life support for trauma and transport	MAN	metropolitan area network
LTBT	limited test ban treaty	MANPADS	Man-Portable Air Defense System
LTE	local thermal equilibrium	MAP	Microwave Anisotropy Probe
LTS	low-temperature superconductivity	MAPO	tris-1-(2-methyl)aziridinyl phosphine oxide
LU	Luxembourg	MAPS	Millimeter Wave Analysis of Passive Signature
LUCE	Laser Utilizing Communications Equipment	MASER	Microwave Amplification by Stimulated Emission of Radiation
LVIS	launch vibration isolation system	MASINT	Measurement and Signature Intelligence
LWIM	low-power wireless microsensors	MAV	micro air vehicle
LWIR	long-wave infrared	MAXRD	impedance matched X-ray diode
LWIR	long wavelength infrared	Mb	Mega bits
LWR	laser warning receiver	MB	Mega bytes
LY	Libya	MBB	Messerschmitt-Bolkow-Blohm (Germany)
m	meter	MBBAY	a specific X-ray blowoff code
m	milli (10 <sup>-3</sup> )	MBCS	Meteor Burst Communications System
M	million; as prefix, Mega	MBE	molecular beam epitaxy
M&C	management and control	MBG	multiband gap
M&S	modeling and simulation	Mbit/sec	megabits/second
m/sec; m/s	meters per second		



Mbps	megabytes per second	MEDEVAC	medical evacuation
MBT	main battle tank	megarad(Si)	million rads (in silicon)
Mbytes	megabytes	MEL	medium-energy laser
MC	molten carbonate	MEL-ARI	Microelectronics Advanced Research Initiative
MC-1	chemical bomb	MEM	microelectromechanical
MCA	multi-chip assembly	MEMS	microelectromechanical systems
MCAGCC	Marine Corps Air Ground Combat Center	MEO	medium-Earth Orbit
MCFC	molten carbonate fuel cell	MEO	middle Earth orbit
MCG	magnetocumulative generator	MEOMS	micro-electrooptical-mechanical systems
MCH	methylcyclohexane	MER	message error rate
MCH	methylcyclohexane	MESA	microsystems and engineering science applications
MCM	mine countermeasure	MESMA	Module d'Energie Sous-Marin Autonome
MCM	multichip module	Met	meteorology
MCM-C	multichip modules-ceramic	MET	molecular electronic technology
MCM-C/D	multichip modules-ceramic/deposited	Methyl	bis(2-methylaziridinyl)methylamino
MCM-D	multichip modules-deposited	METI	Ministry of Economic Trade and Industry (Japan)
MCM-L	multichip modules-laminated	METWG	Biomedical Technology Working Group
MCM-L/D	multichip modules-laminated/deposited	MeV	million electron volts
MCNC	Microelectronic Center of North Carolina (University)	MFC	magnetic field compression
MCP	massively concurrent processing	MFCG	magnetic flux compression generator
MCS	modular charge system	MFL	multiple-folded laser
MCT	mercury cadmium telluride	MFR	Multi-Function Radar
MCT	Militarily Critical Technologies	MFSW	medium-frequency sky wave
MCT	MOS-controlled thyristor	MFS3	multifunction staring sensor suite
MCTL	Militarily Critical Technologies List	MFTWG	Manufacturing and Fabrication Technology Working Group
MCTP	Militarily Critical Technologies Program	Mg	magnesium
MCXO	microcomputer-compensated oscillator	mg	milligram
MDA	Missile Defense Agency	mg/cc	milligrams per cubic centimeter
MDP	multidisciplinary design optimization	mg/cm <sup>2</sup>	milligrams per square centimeter
MDS	magneto-dynamic storage	MHD	magnetohydrodynamic
MEA	More Electric Aircraft	MHD-EMP	magnetohydrodynamic electromagnetic pulse
MEADS	Medium Extended Air Defense System	MHPCC	Maui High Performance Computing Center
MED	magneto-electric dynamic	MHz	megahertz
MEDAL	Mine Warfare Environmental Decision Aids Library		

MIB	management information base	MMIC	microwave/millimeter-wave monolithic integrated circuit
MIC	microwave integrated circuit	MMIC	miniaturized monolithic integrated circuit
MICLIC	mine clearing line charge	MMIC	monolithic microwave integrated circuit
MICOM	U. S. Army Missile Command	mmIC	millimeter-wave IC
MICV	mechanized infantry combat vehicle	MMM	Mesoscale and Microscale Meteorology (Division of NCAR)
MIEM	Master Information Exchange MOU (U.S.–UK)	MMMW	monolithic microwave millimeter wave
MIJ	meaconing, intrusion, jamming, and interception	MMST	Microelectronics Manufacturing Science and Technology
mil	one one-thousandth of an inch	MMT	Methods of Manufacturing Technologies
MILO	magnetic insulated line oscillator	mmw	millimeter wave
MILSATCOM	Military Satellite Communications	MMW	multi-megawatt
MILSPEC	military specification	MMWTIS	millimeter wave targeting and imaging system
MILSTAR	military, strategic, tactical, and relay (satellite)	MN	mega-newton
MIL-STD	Military Standard	MNS	mine neutralization system
MIMP	Mesoscale Interface Mapping Project	MOCVD	metallo organic chemical vapor deposition
min	minutes	MOCVD	metal oxide chemical vapor deposition
MIPS	million instructions per second	MoD	Ministry of Defence (United Kingdom)
MIPS	multimission image processing subsystem	MOD	means of delivery (of WMD)
MIR	mid infrared	Modem	modulator/demodulator
MIS	management information system	MOE	micro-optical element
MIT	Massachusetts Institute of Technology	MOEMS	micro-optics-electromechanical system
MJ	megajoule	MOLLE	modular lightweight load-carrying equipment
mJ	millijoule	MOM	method of moment
ml	milliliter	MOO	MUD, object-oriented
ML	Munitions List (Wassenaar Arrangement)	MOOTW	military operations other than war
MLC	Military Load Class	MOPP	mission-oriented protective posture
MLI	midlife improvement	MOPS	million operations per second
MLIS	molecular laser isotope separation	MOS	metal-oxide semiconductor
MLRS	multiple launch rocket system	MOSFET	metal-oxide semiconductor field-effect transistor
MLS	microwave landing system	MOTS	micro-optical table systems
mm	millimeter	Mots	modified off-the-shelf
mm <sup>2</sup>	square millimeter	MOU	Memorandum of Understanding
MMC	metal matrix composite		
MMD	mass medium diameter		
MMH	monomethyl hydrazine		

MOUT	military operations in urban terrain	MSTAR	moving and stationary target acquisition radar
MOVPE	metal organic vapor phase epitaxy	MSTWG	Marine Systems Technology Working Group
MPa	megapascals	MSX	midcourse space experiment
MPEG	Moving Pictures Expert Group	Mt	megaton
MPF	multipurpose fuze	MT	metric ton
mph	miles per hour	MTBF	mean time between failures
MPI	mean point of impact	MTBOH	mean time between overhaul
MPM	microwave power modules	MTCR	Missile Technology Control Regime
MPNTP	Master Positioning, Navigation, and Timing Plan	MTF	modulation transfer function
MPQS	multi polynomial quadratic sieve	MTI	moving target indication
MPT	Ministry of Posts and Telecommunications (Japan)	MTO	Microsystems Technology Office (DARPA)
MPTB	microelectronics and photonics testbed	Mtops	million theoretical operations per second
MPTWG	Materials and Processing Technology Working Group	MTSAT	multifunctional transport satellite
MPU	microprocessor unit	MTTF	mean time to failure
MR	magnetoresistive	MUD	multiple user dimensions
mrad	milliradians	MURAT	Munitions à Risques Atenuées
Mrad(Si)	million rads (in silicon)	MV	megavolt
mrem	millirem	MV	muzzle velocity
MRI	magnetic resonance imaging	MV/cm	megavolts per centimeter
MRL	multiple rocket launcher	MV/ns	megavolts per nanosecond
MRMS	Millimeter Wave Reflectivity Measurement System	MVA	megavolt-amperes
mRNA	messenger ribonucleic acid	MVRS	muzzle velocity radar system
MRTD	Machine-readable travel documents	MVS	Multiple Virtual System
MS	marine systems	MW	megawatt
MS	mass spectrometry	mW	milliwatt
ms	millisecond	mW/cm <sup>2</sup>	milliwatts per centimeter squared
MSCM	military systems, components, and materials	MWCG	multiwave Cerenkov generator
MSE	mobile subscriber equipment	MWh/kg	megawatt hours per kilogram
msec (ms)	millisecond	MWIR	medium wavelength infrared
MSFC	Marshall Space Flight Center (NASA)	MWIR	midwave infrared
MSIMD	multiple single instruction multiple data	MX	Mexico
MSIS	Multi-Sensor Integration System	n	nano
MSSS	Maui Space Surveillance Site (Air Force)	N	newton
		N D	n-dimensional
		N.B.	nota bene
		N/m <sup>2</sup>	newtons per square meter

NA	numerical aperture	NCP	network control point
Na	sodium	NCTR	non-cooperative target recognition
NACA	National Advisory Committee on Aeronautics	NCW	network-centric warfare
NACC	North Atlantic Cooperation Council	Nd	neodymium
NAD	Navy Area TBMD	Nd:YAG	neodymium:yttrium aluminum garnet
NAE	National Academy of Engineering	NDE	nondestructive evaluation
NAI®	Network Associates, Incorporated	NDGPS	National Differential Global Positioning System
NAL	National Aerospace Laboratory (Japan)	NDI	nondestructive inspection
NAMRU	Naval Medical Research Unit	NDRE	Norwegian Defense Research Establishment
NAS	National Academy of Sciences	NDT	nondestructive test
NAS	network attached storage	NDT&E	nondestructive test and evaluation
NASA	National Aeronautics and Space Administration	NDU	non-digitized unit
NASDA	National Space and Development Agency (Japan)	NDUL	Nuclear Dual-Use List (NSG)
NAT	Network address translation	NE	network element
NATIBO	North American Technology and Industrial Base Organization	NE	northeast
NATO	North Atlantic Treaty Organization	NEDO	New Energy and Industrial Technology Development Organization
NAV	navigation	NELS	Northern European LORAN System
NAVSAT	navigation satellite	NEM	nanoelectromechanical
NAVSEA	Naval Sea Systems Command	NEMO	Naval EarthMap Observer
NAWC	Naval Air Warfare Center	NEMP	nuclear electromagnetic pulse
NB	narrow band	NEMS	nanoelectromechanical systems
NBC	nuclear, biological, and chemical	NEP	noise equivalent power
N/cm <sup>2</sup>	newtons per square centimeter	NEPE	nitrate ester plasticized polyether
NC	numerically controlled	NETD	noise-equivalent temperature difference
NCA	national command authorities	NF	New Forum
NCAC	National Crash Analysis Center (George Washington University)	NFS	Network File System
NCAR	National Center for Atmospheric Research	NFS	number field sieve
NCARAI	Navy Center for Applied Research in Artificial Intelligence	NG	nitroglycerin
NCES	Net Centric Enterprise Services	NGA	National Geospatial-Intelligence Agency
NCIC	National Center for Intelligent Computing	NGIC	National Ground Intelligence Center
NCIS	National Clinical Information System	NGL	next-generation lithography
NCMS	National Center for Manufacturing Science	nH/A	nanohenries per ampere
		nHz	nanohertz
		Ni	nickel

NIC	network interface card	NOCINCO	China North Chemical Industries Corporation
NIH	National Institutes of Health	NOEL	Nonlinear Electronics Laboratory
NIIRS	National Imagery Interpretability Rating Scale	NOL	Naval Ordnance Laboratory
NIJ	National Institute of Justice	NONA	nonanitroterphenyl
NIMA	National Imagery and Mapping Agency	NOS	network operations centers
NIMH	nickel metal hydride	NOSC	Naval Ocean Systems Center
NIMIC	NATO Insensitive Munitions Information Center	NOx	oxides of nitrogen
NIR	near infrared	NOx	nitrogen oxide
NIRIM	National Institute for Research in Inorganic Materials	NP	neutral particle
NIS	Network Information Services	NP	nonproliferation
NIST	National Institute of Standards and Technology	NPB	neutral particle beam
NJIT	New Jersey Institute of Technology	NPT	Nuclear Non-Proliferation Treaty
nK	nanokelvin	NQ	nitroguanidine
NL	Netherlands	NQR	nuclear quadrupole resonance
NLO	nonlinear optical	NRAC	Naval Research Advisory Committee
NLR	National Aerospace Laboratory (Netherlands)	NRC	National Research Council
NLW	nonlethal weapon	NRC	National Response Center
nm	nanometer	NRC	Nuclear Regulatory Commission
NM	network management	NRDEC	Natick Research, Development and Engineering Center
NMD	National Missile Defense	NRL	Naval Research Laboratory
nmi	nautical mile	NRO	National Reconnaissance Office
NMIH	nickel metal hydride	NRT	near real time
NMMO	3-nitratomethyl-3-methyloxetane	NS	nuclear systems
NMP	New Millenium Program	NS&E	nanoscale science and engineering
nmph	nautical miles per hour	NSA	National Security Agency
NMR	nuclear magnetic resonance	NSAN	nonstabilized ammonium nitrate
NMRCI	National Microelectronics Research Centre, Ireland	NSC	Natick Soldier Center (U.S. Army)
NMRS	Near-Term Mine Reconnaissance System	nsec (ns)	nanosecond
NNI	National Nanotechnology Initiative	NSF	National Science Foundation
NNWS	non-nuclear weapons states	NSG	Nuclear Suppliers Group
NO	Naval Operations	NSIAD	National Security and International Affairs Division
NO	Norway	NSLS	National Synchrotron Light Source
NOAA	National Oceanic and Atmospheric Administration	NSOM	nearfield optical scanning microscopy
NOC	network operations center	NSRC	Naval Surface Research Center
		NSTC	National Science and Technology Council
		NSTWG	Nuclear Systems Technology Working Group

NSWC	Naval Surface Warfare Center	OCR	organic cooled reactor
nT	nanotesla	Octal	aluminum octadecanoate
NTA	Network Address Translation	Octal	HMX/TNT mixtures
NTI/O	nontraditional input/output	ODP	oxygen depleting potential
NTL	Nuclear Trigger List (supplement of NSG)	OE	opto-electronics
NTO	nitrogen tetroxide	OEIC	optoelectric integrated circuit
NTO	3-nitro-1,2,4-triazol-5-one	OFHC	oxygen-free high conductivity
NTRS	National Technology Roadmap for Semiconductors	OI	optical interconnection
NTT	Nippon Telephone and Telegraph Corporation	OICETS	Optical Inter-orbit Communications Engineering Test Satellite
NTTC	National Technology Transfer Center (NASA)	OJT	on-the-job training
NTW	Navy Theater Wide	OLAP	on-line analytical processing
NUDET	nuclear denotation	OLE	object linking and embedding
NUST	National University of Sciences and Technology (China)	OLETC	Office of Law Enforcement Technology Commercialization
NUWC	Naval Undersea Warfare Center	OLTP	on-line transaction processing
NV	night vision	OMV	orbit maneuvering vehicles
NVG	night vision goggles	ONERA	Office National d'Études et de Recherches Aérospatiale
NVLAP	National Voluntary Laboratory Accreditation Program	ONR	Office of Naval Research
NVS	night vision system	ONTA	3-nitro-1,2,4-triazol-5-one
NWC	Naval Weapons Center	OODA	observe-orient-decide-act
NWE	nuclear weapons effects	OOT	object-oriented technologies
NWES	nuclear weapons effects simulation	OOTW	operations other than war
NWS	nuclear weapons state	OPC	optical proximity correction
NZ	New Zealand	OPO	optical parametric oscillator
		OPR	Office of Primary Responsibility
		OPSEC	operations security
O&M	operation and maintenance	ORASIS	Optical Real-Time Adaptive Signature Identification System
O&S	operation and support	ORD	operational requirements document
O <sup>2</sup> -I	oxygen iodine	ORNL	Oak Ridge National Laboratory
OASDSOLIC	Office of the Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict	ORU	operational resource unit
OAV	organic air vehicle	O/S	Operating System
OC	optical carrier	OSD	Office of the Secretary of Defense
OCAR	Office of Crash Avoidance Research	OSCE	Organization for Security and Cooperation in Europe
OCCM	optical counter-countermeasures	OSHA	Occupational Safety and Health Administration
OCM	optical countermeasures	OSI	open systems interconnection
OCR	Optical character reader	OSL	optically stimulated luminescence
		OSP	Orbital/Sub-Orbital Program
		OTH	over the horizon



OTM	on the move	PD	photo detectors
OTS	off the shelf	PDA	Personal data assistant
OTV	orbital transfer vehicle	PDA	pulsed disk alternator
P	phosphide	PDE	pulse-detonation engine
P2P	Peer-to-peer	PDL	Page Description Language
Pa	pascal	PDMS	polydimethylsiloxane
PA	phosphoric acid	PE	piezoelectric
Pa/s	pascals per second	PEBB	power electronic building block
PAC-3	Patriot Advanced Capability-3	PEFC	polymer electrolyte fuel cell
PAFC	phosphoric acid fuel cell	PEFC	proton exchange fuel cell polymer electrolyte fuel cell
PAHO	Pan-American Health Organization	PEIP	programmable embeddable INFOSEC product
PAI	pathogenicity island	PEK	polyether ketone
PALs	permissive action links	PEM	proton exchange membrane
PAM	penetration-augmented munition	PEMFC	proton exchange membrane fuel cell
PAR	precision approach radar	PEMS	pico-electromechanical systems
Patriot	Phased Array Tracking Intercept on Target	PET	positron emission tomography
PB	particle beam	PET	pulsed electrothermal
PBAA	polybutadiene-acrylic acid	PETN	pentaerythritol tetranitrate
PBAN	polybutadiene-acrylic acid-acrylonitrile	PEX	paste extrudable explosive
PbS	lead sulphide	PFN	pulse-forming network
PbSe	lead selenide	PFPAE	perfluorinated polyalkyl ether
PbSnTe	lead tin telluride	PGM	An end-user program
PBV	post-boost vehicle	PGM	precision-guided munition
PBW	power by wire	PGN	polyglycidyl nitrate
PBX	plastic-bonded explosive	PGP	Pretty Good Privacy
PC	personal computer	PGU	power-generation unit
PCB	printed circuit board	PH	Philippines
PCN	polycrystalline cubic boron nitride	PHLASH	Phone Home Link for Autonomous Spacecraft Handling
PCDE	polycyanodifluoroamino-ethyleneoxide	PHM	Prognostics and Health Management
PCL	passive coherent location	PIN	personal identification number
pCLC	polymeric cholesteric liquid crystal	PIN	positive-intrinsic-negative diode
PCMCIA	Personal Computer Memory Card International Association	PIO	pilot-induced oscillation
PCR	polymerase chain reaction	PIR	passive infrared
PCRC	photochemical reaction system	PIV	Particle-Imaging Velocimetry
PCS	personal communications system	PK	Pakistan
PCSS	photoconductive solid-state switching	PKI	public key infrastructure
		PL	Poland



PLGR	Precision Lightweight GPS Receiver	PSAM	phase-stabilized ammonium nitrate
PM	permanent magnet	PSD	power spectral density
PM	phase modulation	psf	pounds per square foot
PM	photomultiplier	psi	pounds per square inch
PM	Program Manager	psia	pounds per square inch absolute
PMC	polymer matrix composite	psig	pounds per square inch gauge
PMT	photomultiplier tube	PSM	phase-shifting masks
PNT	positioning, navigation, and time	PSO	peace support operation
PNTP	precision network time protocol	PSP	plasma separation process
PNTWG	Positioning, Navigation, and Time Technology Working Group	PSVN	public switched voice networks
POE	point of entry	PT	Portugal
POF	plastic optical fibers	PTD	physical theory of diffraction
poly-GLYN	poly(nitratromethyloxirane)	PT&F	precise time and frequency
POS/NAV	position/navigation	PTI	precision targeting identification
POSITIME	position and time	PTR	photo-thermo-refractive
POSTECH	Pohang University of Science and Technology (South Korea)	PtSi	platinum silicide
POTS	plain ordinary telephone system	PTT	postal, telephone, and telegraph
ppb	parts per billion	PTTI	precise time and time intervals
ppm	parts per million	Pu	plutonium
PPM	proton precession magnetometer	PUREX	plutonium uranium recovery by extraction
PPS	precise positioning service	PV	photovoltaic
pps	pulses per second	PV/W	pressure-volume/weight
ppt	parts per trillion	PVC	polyvinyl chloride (H <sub>2</sub> CCHCl) <sub>x</sub>
PPT	pulsed plasma thruster	PVD	physical vapor deposition
PRBG	pseudo-random bit generator	PVF <sub>2</sub>	polyvinylidene fluoride
PRC	People's Republic of China	PVP	polyvinylpyrrolidone
PRC	photochemical reaction center	PW	penetrating weapon
PRCS	photochemical reaction center synthesis/structure	PWM	pulse width modulation
PRD	pinch reflex diode	PWR	pressurized water reactor
PRF	pulse repetition frequency	PWSC	preferred weapon system concept
PRNG	Pseudo-random number generator	PYX	picrylaminedinitropyridine
PROM	programmable read-only memory	PZT	lead zirconate titanate
PRPB	Propulsion Directorate/Battery Branch	Q	a figure of merit for a resonant circuit
PRS	plasma radiation source	Q&A	question and answer
ps	picosecond	QA/QC	quality assurance/quality control
PSA	pressure swing absorption	QAM	quadrature amplitude modulation
PSAC	performance-seeking aircraft control	QC	quality control
		QD	quantum dot
		QED	quantum electrodynamics

QIP	quantum information processing	RCM	reciprocating chemical muscle
QIPC	quantum information processing/ communication	RCRA	Resource Conservation and Recovery Act
QKD	Quantum key distribution	RCS	radar cross section
QNOS	quantum nano-optics of semiconductors	RD&E	research, development, and engineering
QW	quantum well	RDA	representational difference analyses
QWIP	quantum well infrared photodetector	RDC	relative dielectric constant
R	range	RDEC	Research, Development, and Engineering Center
R&D	research and development	RDF	Rapid Deployment Force
R/W	read/write	RDG	relativistic diffraction generator
RA	Registration Authority	RDT&E	research, development, test, and evaluation
rad hard	radiation hardened	RDX	cyclotri-methylenetrinitramine
rad(Si)	radiation absorbed dose (in silicon)	RESTORE	Reconfigurable Systems for Tailless Fighter Aircraft
rad(Si)/sec	rads (si) per second	RET	resolution enhancement techniques
RADAR	radio detecting and ranging	REVCON	Revolutionary Concepts (NASA project)
rads	radiation absorbed dose	RF, r f	radio frequency
RADX	cyclotri-methylenetrinitramine	rf/mmW	Radio Frequency/Millimeter Wave (Facility)
RAID	random array of independent devices	RFC	request for comments
RAID	rapid assessment and initial detection	RFI	radio frequency interference
RAID	redundant array of independent disks	RFID	radio-frequency identification
RaLa	radioactive lanthanum	RFP	Request for Proposal
RAM	radar absorbing materials	RFQ	radio frequency quadruple
RAM	random access memory	RHA	rolled homogeneous armor
RAMICS	rapid airborne mine clearance system	RIAA	Recording Industry Association of American
RAP	rocket-assisted projectile	RIE	reactive ion etching
RAS	Russian Academy of Sciences	RIMMP	radar instrument for measurement of land vehicle movement parameters
RAS	radar-absorbing structure	RISC	reduced instruction set computers
RASER	Research and Seeker Emulation Radar	RKA	relativistic klystron amplifier
RBG	random bit generation	RKA	Russian Space Agency
RBLOS	regional beyond-line-of-sight	RLG	ring laser gyroscope
RBMK	(Russian) high-power pressure- tube reactor	RLV	reusable launch vehicle
RC	resistance-capacitance	RMP	reprogrammable microprocessor
RC	Ron's Code	RMS	remote minehunting system
RCA	Radar for Collision Avoidance	rms	root mean square

RNA	ribonucleic acid	s	second
RNG	Random number generator	S	siemen (unit of electrical conductivity)
RO	reverse osmosis		
RO	Romania	S&H	survivability and hardening
ROC	receiver operating characteristic	S&R	search and rescue
ROC	Taiwan – Republic of China	S&T	science and technology
ROE	rules of engagement	S&TW	surveillance and threat warning
ROIC	readout integrated circuit	S/A	selective availability
ROM	read-only memory	S/cm	siemens per centimeter
ROV	remotely operated vehicles	S-HTTP	Secure HTTP
RPC	Remote procedure call	S/m	siemens per meter
RPG	rocket-propelled grenade	S/N	signal to noise (ratio)
RPM	rapid prototype manufacturing	SA	Saudi Arabia
RPM, rpm	revolutions per minute	SA	situational awareness
RPV	remotely piloted vehicle	SA/CID	situational awareness/combat identification
RSA	Rivest, Shamir, Adelman	SAA	South Atlantaic Anomaly
RSC	Rocket Space Corporation (Russia)	SABER	situational awareness beacon with reply
RSCAAL	remote sensing chemical agent alarm	SABRE	shallow water assault breaching
RSMD	radar sensor for maintaining the distance	SACLOS	semi-automatic command to line of sight
RSST	rapid synthesis and simulation tool	SACMA	Suppliers of Advanced Composite Materials Association
RSTA	reconnaissance, surveillance, and target acquisition	SADARM	sense and destroy armor
RSVP	reduced ship's crew by virtual presence	SADL FAC	situational awareness data link forward air controller
RTD	resonant tunneling diodes	SAE	Society of Automotive Engineers
RTG	radioisotope thermoelectric generators	SAF	safing, arming, and fuzing
RTI	run-time infrastructure	SAFER	secure and fast encryption routine
RTK	real-time kinematic	SAFF	safing, arming, fuzing, and firing
RTTY	radio teletype	SAFOR	semi-automated forces
RU	Russia	SAM	self-assembling membrane
RV	reentry vehicle	SAM	surface-to-air missile
RV	remote vehicles	SAMPEX	Solar Anomalous and Magneto-spheric Particle Explorer
RW	Rabin-Williams	SAN	storage area network
RW	rotary wing	SAR	search and rescue
RWC	real-world computing	SAR	synthetic aperture radar
		SAS	Survivable Adaptive System
		SATCOM	communication satellite
		SAW	surface acoustic wave
		Sb	antimony (stibium)

SBEON	space-based electro-optical network	SE	static electric
SBIR	Small Business Innovation Research	SE	Sweden
SBIR	small business innovative research	SEE	single event effect
SBIRS	Space-Based Infrared System	SE&I	systems engineering and integration
SBL	space-based laser	SEA	statistical energy analysis
SBR	space-based radar	sec	second
SBU	Sensitive, but UNCLASSIFIED	SECOMS	satellite EHF communications for mobile multimedia services
SBV	space-based visible	SEFI	single-event fault-interrupt
SC	single crystal	SELEX	systemic evolution of ligands by exponential enrichment
SCADA	supervisory control and data acquisition system	SELT	sheet-explosive loading technique
SCALPEL	scattering with angular limitation projection electron-beam lithography	SEM	scanning electronic microscope
SCDE	simplified collective detection equipment	SEMI	Semiconductor Equipment and Materials International
SCGT	simple-cycle gas turbine	SEP	Société Européenne de Propulsion
SCI	Sensitive Compartmented Information	SEP	spherical error probable
SCM	scanning capacitance microscopy	Sep	system enhancement package
SCM	systems, components, and materials	SES	surface effect ships
SCO	split cavity oscillator	SET	single electron tunneling
SCPE	simplified collective protection equipment	SET	single event transients
SCPS	Space Communication Protocol Standard	SET	synchronizing enabling technologies
SCR	silicon controlled rectifier	SEU	single-event upset
Scramjet	supersonic combustion ramjet	SEV	surface-effect vehicles
SCSI	small computer system interface	SF	superfluorescence
SCSI	Society for Computer Simulation International	SFAP	space-frequency adaptive processor
SCTWG	Signature Control Technology Working Group	SFC	specific fuel consumption
SCUBA	self-contained underwater breathing apparatus	SFODB	Spaceborne Fiber-Optic Data Bus
SCUD	western name for early Soviet missile system	SG	Singapore
SDH	synchronous digital hierarchy	SGC	Security Classification Guide
SDN	software defined network	SGEMP	system-generated electromagnetic pulse
SDO	State Design Office (Ukraine)	SGML	Standard Graphics Markup Language
SDT	spin-dependent tunneling	SHA-1	secure hashing algorithm
SE	spontaneous emission	SHF	super-high frequency
		SHORAD	Short-Range Air Defence
		SHPL	super high power laser
		Si	silicon

SI	Système Internationale d'Unités (The International System of Units)	SMA	shape memory alloy
SIA	Semiconductor Industry Association	SMART	Smart Materials Actuated Rotor Technology
SiC	silicon carbide	SMC	Space and Missile Systems Center (U.S. Air Force)
SiGe	silicon germanium	SMC/T&E	Space and Missile Systems Center Test and Evaluation Directorate
SiGeB	silicon-germanium boron	SMI	structure of management information
SiGeC	silicon-germanium carbon	SMNP	simple management network protocol
SIGINT	signals intelligence	SMP	shape memory polymer
SILEX	Semiconductor Laser Intersatellite Link Experiment	SMP	symmetrical multiprocessor
SIM	Subscriber identity module	SMPT	Simple Mail Transport Protocol
SIMD	single instruction, multiple data	SMR	specialized mobile radio
SIMOX	separation by the implantation of oxygen	SMS	system management system
SiN	silicon nitride	SN	sensors and navigation
SINCGARS	single-channel ground and airborne radio system	SNL	Sandia National Laboratory
SINS	ships inertial navigation systems	SNM	special nuclear material
SiO <sub>2</sub>	silicon dioxide	SNMP	simple network management protocol
SiOC	silicon oxycarbide	SNPE	Société Nationale des Poudres et Explosifs
SIP	SINCGARS Improvement Program	SNR	signal-to-noise ratio
SIPE	soldier integrated protective ensemble	SO	solid oxide
SIPRNET	Secret Internet Protocol Router Network	SOA	safe operating area
SIS	signal in space	SOF	Special Operations Force
SIT	silicon intensified target	SOFC	solid oxide fuel cell
SK	Slovakia	SOFRADIR	Société Française de Détecteurs Infrarouge
SKIPPER	a specific lagrangian ground motion code	SOHO	small office/home office
SLAC	Stanford Linear Accelerator	SOI	silicon on insulator
SLAM	selectable lightweight attack munition	SONET	synchronous optical network
SLAM	standoff land attack missile	SOS	Secure operating system
SLAR	side-looking airborne radar	SOS	silicon-on-sapphire
SLM	spatial light modulator	SOTV	solar orbit transfer vehicle
SLOC	sea line of communication	SP	self propelled
SLR	satellite laser ranging	SP	solid propellant
SLS	side-looking sonar	SP	Special Publication
SLUFAE	surface-launched fuel air explosive	SP	Spain [ES - (ISO)]
SLV	space-launch vehicle	SPA	Software Publishers Association
		SPAWAR	Space and Naval Warfare Systems Command

SPD	severe plastic deformation	SSDC	Space and Strategic Defense Command (U.S. Army)
SPDT	single point diamond turning	SSG	conventional-powered guided missile submarine
SPE	synchronous payload envelope	SSGN	nuclear-powered guided missile submarine
SPECT	single photon emission computerized tomography	SSK	conventional-powered attack submarine
SPEEDES	synchronous parallel environment for emulation and discrete-event simulation	SSL	Secure Sockets Layer
SPES	synchronous payload envelopes	SSM	semi-solid metalworking
SPF/DB	superplastic forming/diffusion bonding	SSME	Space Shuttle Manned Explorer
SPFC	solid polymer electrolyte fuel cell	SSN	submarine, nuclear attack
SpG	specific gravity	SSNS	solid-state navigation system
SPH	smoothed particle hydrodynamics	SSOP	shrink small outline package
SPLAT	spray lead at target	SSR	secondary surveillance radar
SPM	scanning probe microscopy	SST	supersonic transport
SPO	System Program Office	SSTO	single-stage-to-orbit
SPOD	seaport of debarkation	SSTWG	Space Systems Technology Working Group
SPOT	Satellite Pour l'Observation de la Terre	STANAG	standardization agreement
SPP	security practices policy	STAP	space-time adaptive processor; space-time adaptive processing
SPS	Standard Positioning Service	STFD	spatial time-frequency distribution
SQC	statistical quality control	STIO	Space Technology Integration Office
SQUID	superconductive quantum interference device	STM	scanning tunneling microscope
SR	Slovak Republic	STM	synchronous transport module
SR-12	ammonium dinitraminide	STO	science and technology objective
SRA	shop-replaceable assembly	STO	scientific technology objective
SRAM	short-range attack missile	STOL	short takeoff and landing
SRAM	static random access memory	STOM	ship-to-objective maneuver
SRBM	short-range ballistic missile	STOW	synthetic theater of war
SREMP	source region electromagnetic pulse	STP	solar thermal propulsion
SRS	stimulated Raman scattering	STP	standard temperature and pressure
SRTM	Shuttle Radar Topography Mission	STRICOM	U.S. Army Stimulation, Training, and Instrumentation Command
SS	signaling system	STS	Satellite Tracking System
SS	space system	STS	stockpile-to-target sequence
SSA	Ship Support Agency	STS	synchronous transport signal
SSA	solid-state amplifier	STTR	small business technology transfer program
SSB	conventional-powered ballistic missile submarine	STW	Surveillance and Threat Warning
SSB	single sideband	SUNY	State University of New York
SSBN	submarine ballistic missile nuclear		



SURTASS	surveillance towed array sensor systems	TATB	triaminotrinitrobenzene (high-temperature explosive)
SUSOPS	sustained operations	TAV	transatmospheric vehicle
SWAS	small water plane area ship	TB	tuberculosis
SWATH	small waterplane area twin hull	TBC	thermal barrier coating
SWIFT	Society for Worldwide Interbank Financial Telecommunications	TBM	theater ballistic missile
SWIR	short wavelength infrared	TBMD	theater ballistic missile defense
SwRI	Southwest Research Institute	TBN	tactical ballistic missile
SWS	subwavelength structured	TBP	tri-n-butyl-phosphate
SY	Syria	T <sub>c</sub>	critical temperature
		T <sub>c</sub>	superconducting temperature (high T <sub>c</sub> = 77 K, low T <sub>c</sub> = 4 K)
T	tesla	T°	transition temperatures
t	ton	T <sub>c</sub>	transmit clock/telemetry combiner
T	tritium	TCM	trajectory correctable munition
T&E	test and evaluation	TCP/IP	transmission control protocol/internet protocol
T, P, and I	test, production, and inspection	TCSEC	trusted computer system evaluation criteria
T/P	TOPEX/POSEIDON	TCT	time-critical targeting
T/R	transmit and receive	TCXO	temperature-compensated crystal oscillator
T/S	Teraflops per second	TDA	time to double amplitude
T/T	transceiver	TDD	target detection device
T/W	thrust-to-weight (ratio)	TDEA	triple data encryption algorithm
TacMedCS	Tactical Medical Coordination System	TDES	Triple Data Encryption Standard
TACMS	Tactical Missile System	TDI	time delay and integration
TACOM	Tank-Automotive and Armaments Command (U.S. Army)	TDM	time division multiplexing
TADIL	tactical data information link	TDMA	time division multiple access
TADMUS	tactical decision-making under stress	TDOA	time difference of arrival
TAGN	triaminoguanidinenitrate	TDRI	Technical Research and Development Institute (Japan)
TAIW	tetraacetyldibenzylhexaazaiso-wurtzitane	TDRSS	Tracking and Data Relay Satellite System
TAPS	tunnel and pipe seal	Te	telluride
TARDEC	Tank Automotive Research, Development, and Engineering Command	TE	thermoelectric
		TE	transverse electric
TARFS	three axis of rotation flight simulator	TEGDN	triethyleneglycoldinitrate
TAS	thallium arsenic selenide	TEL	transporter/erector launcher
TASER	Tom A. Swift's Electric Rifle	TEM	transmission electron microscopy
TAT	1,3,5,7-tetraacetyl-1,3,5,7-tetraazacyclooctane	TEM	transverse electromagnetic
		TEMPEST	transient electromagnetic pulse emanations standard



TEPAN	tetraethylenepentamine-acrylonitrile	TNAD	1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin
TEPANOL	tetraethylenepentamine-acrylonitrileglycidol	TNAZ	1,1,3-trinitroazetidine
TE-PVD	thermal evaporation—physical vapor deposition	TNEOC	polynitroorthocarbonate
TERCOM	terrain contour matching	TNGU	tetranitroglycoluril
TERM-KE	tank extended range munition-kinetic energy	TNO	Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek (The Netherlands Organization for Applied Scientific Research)
TERPROM	terrain profile matchup	TNO-PML	The Netherlands Organization for Science and Technology—Prins Maurits Laboratory
TES	Tactical Exploitation System	TNPDU	tetranitropropanediurea
Tetryl	trinitro-phenylmethylnitramine	TNT	trinitrotoluene
TEU	technical escort unit	TOC	tactical operations center
TeV	tera electron volt	TOPS	total object processing system
TFC	transverse field compensation	Torr	pressure equivalent of 1 millimeter of mercury
TFT	thin-film transistor	TOW	tube-launched, optically tracked, wire-guided (antitank missile)
T <sub>g</sub>	glass transition temperature	TPB	triphenyl bismuth
TGSM	terminally guided submunition	TPL	towed pinger locator
TH	Thailand	TPP	theoretical peak performance
THAAD	Theater High-Altitude Area Defense	TPV	thermophotovoltaics
ThAD	tetranitrotetraaradecalin	TR	target recognition
THEL	tactical high-energy laser	TR	transition radiation
THz	terahertz	TR	Turkey
TI	target identification	TRACER	Tactical Reconnaissance Armoured Combat Equipment Requirement
TI	thermal imaging	TRADOC	U.S. Army Training and Doctrine Command
Ti	titanium	TRANET	Transit Network (U.S. Navy)
TID	total incident dose	TRANSEC	transmission security
TIR	total indicated reading	TRAPATT	trapped plasma avalanche transit-time triode
TIS	total integrated scattering	TREE	transient radiation effects on electronics
TIS	trusted information system	TRIGAT	Tri-lateral Antitank Guided Weapon
TLD	thermoluminescent dosimetry	TRI-TAC	Tri-Services-Tactical Communications
TLE	target location error	TRMA	traceability, reliability, maintainability, and availability
TLGC	transfer line gas chromatography		
TM	transverse magnetic		
TMD	Theater Missile Defense		
TMN	telecommunication management network		
TMP	trimethylol propane		
TMS	thermomechanical shock		
TN	thermonuclear		
TN	Tunisia		

TRMM	Tropical Rainfall Measuring Mission (NASA satellite)	UFPA	Universidade Federal do Pará (Brazil)
TRP	Technology Reinvestment Program	UGS	unattended ground sensors
TSA	temperature swing adsorption	UGS	unattended ground systems
TsAGI	Russian Central Aero- and Hydrodynamic Institute	UGT	underground testing
TSOP	thin small outline package	UGV	unmanned ground vehicle
TSR	thermostructural response	UGWET	underground nuclear weapons effects test
TSS	telecommunications system sector	UGWET	underground weapons evaluation and testing
TT&C	telemetry tracking and controls	UHCA	ultrahigh-capacity airliner
TTO	Technology Transition Office	UHF	ultrahigh frequency
TTP	tactics, techniques, and procedures	UHV	ultrahigh vacuum
TTP	trusted third party	UK	United Kingdom
TUGV	tactical unmanned ground vehicle	ULSI	ultra-large-scale integration
Tupolev ANTK	A.N. Tupolev Scientific and Technological Aviation Complex	UN	United Nations
TV	television	UNDEX	underwater explosion
TVC	thrust vector control	uPa/g	micropascal per gram
TVOPA	(tris vinoxypropane adduct) 1,2,3-tris(1,2-bis(difluoro-amonio)ethoxy)propane	UPC	unit processing code
TVSS	toroidal volume search sonar	UPS	uninterruptible or uninterrupted power supply
TW	Taiwan	UPS	uninterruptible power system
TW	terawatt	URL	Uniform Resource Locator
TW	throw weight	USA	U.S. Army
TW	toxin weapon	USAF	U.S. Air Force
TWG	Technology Working Group	USAMRIID	United States Army Medical Research Institute of Infectious Diseases
TWT	traveling wave tube	USARTTC	U.S. Army Redstone Technical Test Center
U	uranium	USASMDC	United States Army Space and Missile Command
UA	Ukraine	USB	Universal Serial Bus
UAV	unmanned aerial vehicle	USCG	U.S. Coast Guard
UAV	unmanned air vehicle	USD (AT&L)	Under Secretary of Defense for Acquisition, Technology, and Logistics
UCAR	University Corporation for Atmospheric Research	USG	United States Government
UCAV	uninhabited combat air vehicle	USMC	United States Marine Corps
UDMH	unsymmetrical dimethyl hydrazine	USML	United States Munition List
UDP	user datagram protocol	USN	U.S. Navy
UEP	underwater electric potential	USNO	United States Naval Observatory
UF <sub>6</sub>	uranium hexafluoride	USSPACECOM	United States Space Command
UFCV	ultra-fast closing valve		

USSR	Union of Soviet Socialist Republics	VMS	vehicle management system
USW	undersea warfare	VN	Vietnam
UTC	coordinated universal time	VNL	Virtual National Laboratory
UTD	uniform theory of diffraction	VOC	volatile organic compounds
UTS	ultimate tensile strength	VOR	very-high-frequency omnidirectional range
UUV	unmanned underwater vehicle	VPB	vacuum power booster
UV	ultraviolet	VPI	vertical plane imaging
UWB	ultra-wideband	VPN	virtual private network
UXGA	ultra extended graphics array	VR	virtual reality
UXO	unexploded ordnance	VSAT	very-small-aperture terminal
V Agents	nerve agents	VSHORAD	Very Short-Range Air Defence
V	volt	VTOL	vertical takeoff and landing
V&V	verification and validation	VTR	video tape recorder
V/m	volts per meter	VUV	vacuum ultraviolet
V/sec	volts per second	VVA	verification, validation, and authentication
V-A	volt-ampere	VWF	variable message format
VBAD	Vehicle Blinde d'Appui	VX	chemical nerve agent
VCEI	Virtual Card Edge Interface	W	watt
VCN	voice communications network	W/cm <sup>2</sup>	watts per square centimeter
VCR	videocassette recorder	W/in	watts per inch
VCSEL	vertical cavity surface emitting laser	W/kg	watts per kilogram
VDD	voltage drain drain	W/L	watt per liter
VE	Venezuela	W/s	watts per second
VEMASID	vehicle magnetic signature duplicators	WA Cat	Wassenaar Arrangement—Dual-Use List Category
VETRONICS	vehicle electronics	WA ML	Wassenaar Arrangement—Munitions List
VHF	very high frequency	WA	Wassenaar Arrangement
VHN	Vickers hardness	WAAS	wide-area augmentation system
VHSIC	very high-speed integrated circuit	WAM	wide-area mine
VIS	visible	WANS	wide-area network system
VLCI	vehicle limiting cone index	WAS	wide-area search
VLCT	very large commercial transport	WB	wide band
VLF	very low frequency	WCS	wearable computer system
VLSI	very large-scale integrated	WDDI	wire-distributed data interface
VLSI	very large-scale integration	WDM	wavelength division multiplexing
VLWIR	very long-wave infrared	We/kg	watts (electric) per kilogram
VM	Virtual Machine	WET	weapons effects test
VMF	variable message format		
VMS	Multiple Virtual System		

WETWG	Weapons Effects and Countermeasures Technology Working Group	Z	atomic number
		ZA	South Africa
WGS	World Geodetic System	ZCS	zero current switching
w-h/kg	watt-hour per kilogram	ZGP	zinc germanium phosphide
WHO	World Health Organization	Zn	zinc
Whr/kg	watt-hour per kilogram	ZNP	zero-knowledge proofs
Whr/L	watt-hour per liter	ZnS	zinc sulfide
WII	world information infrastructure	ZnSe	zinc selenide
Wi-Fi	Wireless fidelity	ZrF <sub>4</sub>	zirconium fluoride
WLAN	Wireless Local Area Network	ZVS	zero voltage switching
WMD	weapons of mass destruction		
WORM	write once/read many		
WP	white phosphorus		
WPAFB	Wright-Patterson Air Force Base		
WRA	weapon replacement assembly		
WSMR	White Sands Missile Range		
WSQ	wavelet scalar quantization		
WTC	Worldwide Technology Capability		
WTEC	World Technology Evaluation Center		
WWAN	Wireless Wide Area Network		
WWI	World War I		
WWMCCS	Worldwide Military Command and Control System		
WWW	Worldwide Web		
X9	ANSI Financial Service		
X9F1	ANSI Financial Service, Cryptographic Standards and Tools Working Group		
XCBF	XML Common Biometric Format		
XML	Extensible Markup Language		
XO	crystal oscillator		
XOR	Exclusive-OR		
XPS	photoelectron spectroscopy		
XTE	X-ray Timing Explorer		
YAG	yttrium/aluminum garnet		
YBCO	yttrium barium copper oxide		
YSGG	yttrium scandium gallium garnet		