2014 IEEE Taxonomy

Version 1.0



Created by
The Institute
of Electrical
and
Electronics
Engineers
(IEEE)



IEEE Taxonomy: A Subset Hierarchical Display of IEEE Thesaurus Terms

The IEEE Taxonomy comprises the first three hierarchical 'levels' under each term-family (or branch) that is formed from the top-most terms of the IEEE Thesaurus. In this document these term-families are arranged alphabetically and denoted by **boldface** type. Each term family's hierarchy goes to no more than three sublevels, denoted by indents (in groups of four dots) preceding the next level terms. A term can appear in more than one hierarchical branch and can appear more than once in any particular hierarchy. The 2014 IEEE Taxonomy is defined in this way so that it is always a subset of the 2014 IEEE Thesaurus.

Aerospace and electronic systems	Airborne radar
Aerospace control	Bistatic radar
Aerospace control	Doppler radar
Air traine control	Ground penetrating radar
	Laser radar
Ground support	
Aerospace engineering	Meteorological radar
Aerospace biophysics	Millimeter wave radar
Aerospace electronics	Multistatic radar
Aerospace safety	MIMO radar
Air safety	Passive radar
Aerospace simulation	Radar applications
Aerospace testing	Radar countermeasures
Satellites	Radar detection
Artificial satellites	Radar imaging
Earth Observing System	Radar measurements
Low earth orbit satellites	Radar polarimetry
Moon	Radar remote sensing
Space stations	Radar tracking
Space technology	Radar clutter
Space exploration	Radar cross-sections
Aerospace materials	Radar equipment
Aerospace components	Radar theory
Aircraft manufacture	Spaceborne radar
Aircraft navigation	Spread spectrum radar
Aircraft propulsion	Synthetic aperture radar
Propellers	Inverse synthetic aperture radar
Command and control systems	Polarimetric synthetic aperture
Electronic warfare	radar
Electronic countermeasures	Ultra wideband radar
Jamming	Sensor systems
Radar countermeasures	Gunshot detection systems
Military equipment	Sonar
Military aircraft	Sonar applications
Payloads	Sonar detection
Military satellites	Sonar measurements
Weapons	Sonar equipment
Guns	Synthetic aperture sonar
Missiles	Telemetry
Nuclear weapons	Biomedical telemetry
Projectiles	· · · · · · · · · · · · · · · · · · ·



....Radar

Automore and proposition	
Antennas and propagation	Electromagnetic diffraction
Antennas	Optical diffraction
Antenna accessories	Physical theory of diffraction
Antenna arrays	X-ray diffraction
Adaptive arrays	Electromagnetic propagation in
Butler matrices	absorbing media
Linear antenna arrays	Electromagnetic reflection
Log periodic antennas	Optical reflection
Microstrip antenna arrays	Microwave propagation
Microwave antenna arrays	Millimeter wave propagation
Phased arrays	Optical propagation
Planar arrays	Optical surface waves
Antenna radiation patterns	Optical waveguides
Near-field radiation pattern	Propagation constant
Antenna theory	Propagation losses
Frequency selective surfaces	Radio propagation
Apertures	Radiowave propagation
Aperture antennas	Submillimeter wave propagation
Aperture coupled antennas	UHF propagation
Broadband antennas	Radio astronomy
Ultra wideband antennas	
Vivaldi antennas	5 1 11 1
Dielectric resonator antennas	Broadcast technology
Dipole antennas	Broadcasting
Directional antennas	Digital audio broadcasting
Directive antennas	Digital audio players
Feeds	Digital Radio Mondiale
Antenna feeds	Digital multimedia broadcasting
Fractal antennas	Digital video broadcasting
Helical antennas	Radio broadcasting
Horn antennas	Frequency modulation
Leaky wave antennas	Radio networks
Loaded antennas	Satellite broadcasting
Log-periodic dipole antennas	TV broadcasting
Microstrip antennas	
Microwave antennas	3 ' '4
Mobile antennas	Circuits and systems
Multifrequency antennas	Circuits
Omnidirectional antennas	Active circuits
Patch antennas	Active inductors
Radar antennas	
Receiving antennas	Operational amplifiers
Rectennas	Adders
Reflector antennas	Analog circuits
Satellite antennas	Analog integrated circuits
Slot antennas	Analog processing circuits
Transmission line antennas	Application specific integrated circuits
Transmitting antennas	System-on-chip
UHF antennas	Asynchronous circuits
Yagi-Uda antennas	Bipolar integrated circuits
Electromagnetic propagation	BiCMOS integrated circuits



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Bipolar transistor circuits	Integrated circuit modeling
Bipolar integrated circuits	Integrated circuit noise
Bistable circuits	Integrated circuit synthesis
Latches	Large scale integration
Bridge circuits	MESFET integrated circuits
Charge pumps	Microprocessors
Circuit analysis	Microwave integrated circuits
Circuit analysis computing	Millimeter wave integrated circuits
Coupled mode analysis	Mixed analog digital integrated
Nonlinear network analysis	circuits
Circuit faults	Monolithic integrated circuits
Electrical fault detection	Photonic integrated circuits
Circuit noise	Power integrated circuits
Thermal noise	Radiofrequency integrated circuits
Circuit simulation	Submillimeter wave integrated
Circuit synthesis	circuits
High level synthesis	Superconducting integrated circuits
Integrated circuit synthesis	Thick film circuits
Coprocessors	Thin film circuits
Counting circuits	Three-dimensional integrated
Coupling circuits	circuits
Digital circuits	Through-silicon vias
Circuit topology	UHF integrated circuits
Digital integrated circuits	Ultra large scale integration
Digital signal processors	Very high speed integrated circuits
Distributed parameter circuits	Very large scale integration
Driver circuits	Wafer scale integration
Electronic circuits	Isolators
Breadboard circuit	Large scale integration
Central Processing Unit	Ultra large scale integration
Stripboard circuit	Very large scale integration
Equivalent circuits	Wafer scale integration
Feedback	Linear circuits
Feedback circuits	Logic arrays
Negative feedback	Programmable logic arrays
Neurofeedback	Logic circuits
Hybrid integrated circuits	Combinational circuits
Integrated circuits	Logic arrays
Analog-digital integrated circuits	Programmable logic arrays
Analog integrated circuits	Superconducting logic circuits
Application specific integrated	Magnetic circuits
circuits	Microprocessors
Bipolar integrated circuits	Automatic logic units
CMOS integrated circuits	Biomimetics
Coprocessors	Coprocessors
Current-mode circuits	Microcontrollers
Digital integrated circuits	Microprocessor chips
FET integrated circuits	Vector processors
Field programmable gate arrays	Microwave circuits
Hybrid integrated circuits	Millimeter wave circuits
Integrated circuit interconnections	Millimeter wave integrated circuits



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Millimeter wave integrated circuits	Thin film circuits
MIMICs	Thyristor circuits
Monolithic integrated circuits	Time varying circuits
MIMICs	Trigger circuits
MMICs	UHF circuits
MOSFET circuits	UHF integrated circuits
CMOSFET circuits	UHF integrated circuits
MOS integrated circuits	Ultra large scale integration
Power MOSFET	Very large scale integration
Multiplying circuits	Neuromorphics
Nonlinear circuits	Wafer scale integration
Nonlinear network analysis	VHF circuits
Passive circuits	Wafer scale integration
Phase shifters	Contacts
Phase transformers	Brushes
Power dissipation	Contact resistance
Power integrated circuits	Ohmic contacts
Printed circuits	Filtering
Flexible printed circuits	Filters
Programmable circuits	Active filters
Field programmable analog arrays	Anisotropic
Programmable logic arrays	Bragg gratings
Programmable logic devices	Channel bank filters
Programmable logic arrays	Digital filters
Programmable logic devices	Equalizers
Pulse circuits	Filtering theory
Flip-flops	Gabor filters
Radiation detector circuits	Harmonic filters
Rail to rail operation	IIR filters
Rail to rail amplifiers	Kalman filters
Rail to rail inputs	Low-pass filters
Rail to rail outputs	Matched filters
Rectifiers	Microstrip filters
RLC circuits	Nonlinear filters
Sampled data circuits	Particle filters
Sequential circuits	Power filters
Silicon-on-insulator	Resonator filters
Silicon on sapphire	Spatial filters
Submillimeter wave circuits	Superconducting filters
Submillimeter wave integrated	Transversal filters
circuits	Information filtering
Summing circuits	Information filters
Switched circuits	Recommender systems
Switched capacitor circuits	Integrated circuit technology
Switching circuits	CMOS technology
Choppers (circuits)	CMOS process
Logic circuits	Silicon on sapphire
Switching converters	Moore's Law
Zero current switching	Logic devices
Zero voltage switching	Logic gates
Thick film circuits	Programmable logic devices
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Oscillators	Transponders
Digital-controlled oscillators	TV equipment
Injection-locked oscillators	Large screen displays
Local oscillators	TV receivers
Microwave oscillators	Video codecs
Phase noise	Video equipment
Ring oscillators	Video codecs
Voltage-controlled oscillators	Vocoders
Single electron devices	Communication switching
Single electron memory	Code division multiplexing
Hetero-nanocrystal memory	Electronic switching systems
Single electron transistors	Frame relay
Tunable circuits and devices	Handover
RLC circuits	Multiprotocol label switching
Tuned circuits	Packet switching
Tarioa diroatto	Burst switching
	Frame relay
Communications technology	Multiprotocol label switching
Communication equipment	Packet loss
Auditory displays	
Codecs	Communication systemsARPANET
Speech codecs	Biomedical communication
Video codecs	Biomedical telemetry
Modems	Telemedicine
Optical communication equipment	Broadband communication
Optical transmitters	B-ISDN
Radio communication equipment	Broadband amplifiers
Base stations	Communication networks
Ham radios	Central office
Land mobile radio equipment	Cyberspace
Radio transceivers	Industrial communication
Transponders	Relay networks
Receivers	(telecommunications)
Optical receivers	Software defined networking
RAKE receivers	Communication system control
Receiving antennas	Telecommunication control
Repeaters	Communication system security
Speech codecs	Radio communication
Telephone equipment	countermeasures
Cellular phones	Communication system signaling
Telephone sets	Communication system software
Vocoders	Streaming media
Transceivers	Communication system traffic
Radio transceivers	Communication system traffic control
Transmitters	Computer networks
Auxiliary transmitters	Ad hoc networks
Diversity methods	Computer network management
Neurotransmitters	Content distribution networks
Optical transmitters	Cyberspace
Radio transmitters	Diffserv networks
Transmitting antennas	Domain Name System
Transmitting unterinas	Domain Hame Oyotom



Ethernet networks	Internet topology
Google	Middleboxes
Internet	Semantic Web
Intserv networks	Social computing
IP networks	Web 2.0
Metropolitan area networks	Web services
Multiprocessor interconnection	IP networks
networks	TCPIP
Network servers	ISDN
Next generation networking	B-ISDN
Overlay networks	Land mobile radio cellular systems
Peer-to-peer computing	Cellular networks
Software defined networking	Paging strategies
Storage area networks	Local area networks
Token networks	Wireless LAN
Unicast	Machine-to-machine communications
Virtual private networks	Metropolitan area networks
Wide area networks	Microwave communication
Cross layer design	Rectennas
Data buses	Military communication
Backplanes	Reconnaissance
Data communication	Millimeter wave communication
Asynchronous communication	MIMO
Asynchronous transfer mode	Rician channels
Data buses	Mobile communication
Data transfer	3G mobile communication
Telecommunication buffers	4G mobile communication
Telemetry	Ambient networks
Teleprinting	Dual band
Digital communication	Land mobile radio
Baseband	Land mobile radio cellular systems
DICOM	Mobile nodes
Digital audio broadcasting	Mobile radio mobility management
Digital images	Software radio
Digital multimedia broadcasting	Molecular communication
Digital video broadcasting	Multiaccess communication
DSL	Direct-sequence code-division
ISDN	multiple access
Passband	Frequency division multiaccess
Portable media players	Multicarrier code division multiple
SONET	access
Spread spectrum communication	Subscriber loops
Facsimile	Time division multiple access
FDDI	Time division synchronous code
Indoor communication	division multiple access
Indoor communication	Multicast communication
Indoor environments	Multicast VPN
Crowdsourcing	Multimedia communication
Instant messaging	Narrowband
Internet of Things	Optical fiber communication
Internet telephony	FDDI



Ontical huffaring	Submillimeter wave communication
Optical buffering	
Optical fiber networks	Subscriber loops
Optical fiber subscriber loops	Switching systems
Optical interconnections	Electronic switching systems
Optical packet switching	Switching frequency
Optical wavelength conversion	Switching loss
Scheduling algorithms	Telecommunication switching
SONET	Synchronous digital hierarchy
Personal communication networks	Telecommunications
Protocols	Ambient intelligence
Access protocols	Feedback communications
Asynchronous transfer mode	IP networks
Cryptographic protocols	Radio access networks
Master-slave	Railway communication
Multicast protocols	Telecommunication computing
Multiprotocol label switching	Telecommunication network
Routing protocols	topology
Transport protocols	Telecommunication services
Wireless application protocol	Telematics
Quality of service	Teleconferencing
Admission control	Telegraphy
Radio communication	.
Baseband	Telephony
	Teleprinting
Bluetooth	Teletext
Indoor radio communication	Token networks
Land mobile radio	UHF communication
Land mobile radio cellular systems	Underwater communication
Packet radio networks	Videophone systems
Passband	Videotex
Personal area networks	Visual communication
Radio broadcasting	Wide area networks
Radio communication	Wideband
countermeasures	Wireless communication
Radio frequency	Cognitive radio
Radio link	Cooperative communication
Radio spectrum management	GSM
Satellite communication	Open wireless architecture
Satellite ground stations	Roaming
Software radio	Spatial diversity
Zigbee	WiMAX
Routing	Wireless application protocol
Wavelength routing	Wireless networks
Satellite communication	Wireless mesh networks
Downlink	Wireless sensor networks
Satellite broadcasting	Body sensor networks
Satellite ground stations	Event detection
Uplink	Couplers
Satellite ground stations	Directional couplers
SIMO	High-speed electronics
SISO	High-speed integrated circuits
Spatial diversity	High-speed networks



Ultrafast electronics	Peak to average power ratio
Image communication	Time division multiplexing
Facsimile	Wavelength division multiplexing
Picture archiving and communication	WDM networks
systems	Network topology
Message systems	Complex networks
Electronic mail	Computer network reliability
Unified messaging	Presence network agents
Unsolicited electronic mail	TV
Electronic messaging	Cable TV
Instant messaging	Digital TV
Unified messaging	Analog TV
Postal services	HDTV
Publish subscribe systems	IPTV
Voice mail	Mobile TV
Modulation	Three-dimensional television
	UHF technology
Amplitude modulation	UHF antennas
Amplitude shift keying	UHF circuits
Quadrature amplitude modulation	UHF integrated circuits
Chirp modulationDemodulation	UHF communication
	UHF devices
Digital modulation	
Constellation diagram	UHF integrated circuits
Partial response signaling	Ultra wideband technology
Frequency modulation	Ultra wideband antennas
Frequency shift keying	Ultra wideband communication
Magnetic modulators	Ultra wideband radar
Modulation coding	VHF devices
Interleaved codes	
Optical modulation	Components markening and
Electrooptic modulators	Components, packaging, and
Intensity modulation	manufacturing technology
Phase modulation	Component architectures
Continuous phase modulation	Electronic components
Differential phase shift keying	Capacitors
Phase shift keying	Power capacitors
Pulse modulationPulse width modulation	Varactors
	Coils
Pulse width modulation inverters	Superconducting coilsConnectors
Space vector pulse width modulation	
	Plugs
Multiplexing	Sockets
Code division multiplexing	Diodes
Demultiplexing	Diode lasers
Frequency division multiplexing	Electrodes
Multiplexing equipment	Anodes
Add-drop multiplexers	Cathodes
OFDM	Microelectrodes
Multiple access interference	Fuses
OFDM modulation	Inductors
Partial transmit sequences	Active inductors



Think film industors	Decision support systems
Thick film inductors	Decision support systems
Thin film inductors	Intelligent systems
Resistors Memristors	Intelligent robots
	Knowledge based systems
Switched capacitor networks	Expert systems
Varistors	Mobile agents
Structural plates	Knowledge engineering
Switches	Inference mechanisms
Contactors	Knowledge acquisition
Microswitches	Knowledge discovery
Optical switches	Knowledge representation
Transducers	Learning (artificial intelligence)
Acoustic transducers	Distance learning
Biomedical transducers	Electronic learning
Chemical transducers	Learning systems
Piezoelectric transducers	Backpropagation
Ultrasonic transducer arrays	Learning automata
Electronic equipment manufacture	Semisupervised learning
Damascene integration	Supervised learning
Micromachining	Unsupervised learning
Radiation hardening (electronics)	Machine learning
Semiconductor device manufacture	Boosting
Diffusion processes	Statistical learning
Flip-chip devices	Prediction methods
High-K gate dielectrics	Linear predictive coding
Quasi-doping	Predictive coding
Semiconductor device doping	Predictive encoding
Semiconductor epitaxial layers	Predictive models
Semiconductor growth	Autonomous mental development
Silicidation	Computational intelligence
Wafer bonding	Computation theory
Electronics packaging	Computational complexity
Chip scale packaging	Concurrent computing
Environmentally friendly manufacturing	Greedy algorithms
techniques	Support vector machines
Integrated circuit manufacture	Evolutionary computation
Surface-mount technology	Particle swarm optimization
Integrated circuit packaging	Fuzzy systems
Multichip modules	Fuzzy control
Plastic integrated circuit packaging	Fuzzy neural networks
Semiconductor device packaging	Hybrid intelligent systems
Thermal management of electronics	Genetic algorithms
Electronic packaging thermal	Logic
management	Fuzzy logic
Electronics cooling	Fuzzy cognitive maps
	Takagi-Sugeno model
	Multivalued logic
Computational and artificial intelligence	Probabilistic logic
Artificial intelligence	Sufficient conditions
Context awareness	Machine intelligence
Cooperative systems	Pattern analysis



Neural networks	Web sites
Artificial neural networks	Facebook
Hebbian theory	MySpace
Self-organizing feature maps	Uniform resource locators
Biological neural networks	Web design
Cellular neural networks	YouTube
Feedforward neural networks	World Wide Web
Multilayer perceptrons	Mashups
Multi-layer neural network	Computer architecture
Neural network hardware	Accelerator architectures
Radial basis function networks	Data structures
Recurrent neural networks	Arrays
Hopfield neural networks	Binary decision diagrams
	Null value
	Octrees
Computers and information processing	Table lookup
Computer applications	Tree data structures
Affective computing	Dynamic voltage scaling
Application virtualization	Memory architecture
Computer aided analysis	Memory management
Computer aided engineering	Multiprocessor interconnection
Computer aided instruction	Hypercubes
Computer generated music	Parallel architectures
Computer integrated manufacturing	Multicore processing
Control engineering computing	Reconfigurable architectures
Green computing	Computer interfaces
High energy physics instrumentation	Application programming interfaces
computing	WebRTC
Linear particle accelerator	Browsers
Knowledge management	Field buses
Knowledge transfer	Firewire
Medical information systems	Haptic interfaces
Electronic medical records	Data gloves
Military computing	Force feedback
Physics computing	Grasping
Power engineering computing	Hypertext systems
Power system analysis computing	Interface phenomena
Publishing	Network interfaces
Bibliometrics	Interface states
Company reports	Musical instrument digital interfaces
Desktop publishing	Ports (Computers)
Electronic publishing	System buses
Open Access	Computer networks
Scientific publishing	Ad hoc networks
Scientific computing	AODV
Telecommunication computing	Mesh networks
Internetworking	Mobile ad hoc networks
Soft switching	Vehicular ad hoc networks
Virtual enterprises	Computer network management
Virtual manufacturing	Computer network reliability
Virtual machining	Disruption tolerant networking



Microcomputers Network address translation Network synthesis Content distribution networks Cyberspace Diffserv networks Domain Name System Ethemet networks Ethemet networks Effect and the system and the system and the system are system and the system and the system are system and the system are system and the system and the system are system and the system are system and the system and the system are system and the system are system and the s	Management information base	Difference engines
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Internet of Things Internet telephony Internet topology Internet topology Middleboxes Middleboxes Semantic Web Semantic Web Social computing Web 2.0 Web services Intserv networks Metropolitan area networks Metworks Metwork servers Network servers Networks Peer-to-peer computing Software defined networking Software defined networks Tirtual private networks Wide area networks Computer peripherals Computers Metyology Storage area networks Mittual private networks Mittual private networks Computer peripherals Modems Printers Middleboxes Functional programming Concatenated codes Functional programming Integer linear programming Logic programming Logic programming Microprogramming Logic programming Microprogramming Object oriented methods Object oriented programming Opportunistic software systems development Parallel programming Metoryoriented programming Metoryoriented programming Metoryoriented programming Metoryorgamming Opportunistic software systems development Parallel programming Metoryorgamming Metoryorgaming		• • • • • • • • • • • • • • • • • • • •
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IP networksObject oriented programmingTCPIPOpportunistic software systems development	Web services	Microprogramming
TCPIPMetropolitan area networksMultiprocessor interconnection networksNetwork serversNext generation networkingOverlay networksPeer-to-peer computingSoftware defined networkingStorage area networksUnicastVirtual private networksExtranetsWide area networksComputer performanceComputer errorsComputer errorsComputer peripheralsDisk drivesDisk drivesDigital-analog conversionComputersDigital-analog conversionDigital-analog conversionData equinetingOpportunistic software systems developmentParallel programmingPerformance analysisProgramming professionConcurrency controlProcessor schedulingScheduling algorithmsScheduling algorithmsData systemsData systemsData systemsData systemsData acquisitionFastbus	Intserv networks	Object oriented methods
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PrintersDigital-analog conversionData engineering		
Data engineering		
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Analog computers Data handling		
	Analog computers	Data handling
Data assimilation	Calculators	Data assimilation



Data encapsulation	Internet of Things
Document handling	Internet telephony
Merging	Internet topology
Sorting	Middleboxes
	Semantic Web
Data processing	
Associative processing	Social computing
Business data processing	Web 2.0
Data analysis	Web services
Data collection	Metacomputing
Data integration	Grid computing
Data preprocessing	Peer-to-peer computing
Data transfer	DNA computing
Information exchange	File servers
Spreadsheet programs	Hardware
Text processing	Open source hardware
Virtual enterprises	High performance computing
Data storage systems	Image processing
Data warehouses	Active shape model
Digital systems	Feature extraction
Internet	Geophysical image processing
Crowdsourcing	Gray-scale
Instant messaging	Image analysis
Internet of Things	Image classification
Internet telephony	Image motion analysis
Internet topology	Image quality
Middleboxes	Image sequence analysis
Semantic Web	Image texture analysis
Social computing	Object detection
Web 2.0	Subtraction techniques
Web services	Image coding
ISDN	Image color analysis
B-ISDN	Image decomposition
Local area networks	Image denoising
Wireless LAN	Image enhancement
Metropolitan area networks	Image fusion
Token networks	Image generation
Distributed computing	Plasma displays
Client-server systems	Visual effects
Middleware	Image recognition
Servers	Image edge detection
Collaborative work	Image reconstruction
Cooperative communication	Image registration
Crowdsourcing	Image representation
Social computing	Image resolution
Diffserv networks	High-resolution imaging
Distributed databases	Spatial resolution
Distributed databases	Image restoration
Publish-subscribe	Image restoration
Internet	Image sampling
Crowdsourcing	Image segmentation
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Instant messaging	Image texture



Object segmentation Object segmentation Object segmentation Morphological operations Optical feedback Smart pixels Spatial coherence Table lookup Memory Analog memory Associative memory Buffer storage Computer buffers Cache memory Cache storage Content addressable storage Flash memories Flash memory Floppy disks Hard disks Memory management Nonvolatile memory Nonvolatile single electron memory Phase change random access memory SPAM chips Phase change random access memory SPAM chips Read only memory Registers Scanning probe data storage Special aysis Merica storage Multitutaking Multitasking Melacit computing Molecular	Machine vision	Multiprocessing systems
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Public domain software		•
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Autonomous agents	Loudspeakers
Intelligent agentsSoftware as a service	Microphones Microphone arrays
Software as a service	Portable media players
	Sonification
Software designSoftware maintenance	Home automation
Software packagesEMTDC	Portable media players
MATLAB	Refrigerators Smart homes
PSCAD	Washing machines
SPICE	Home computing
Software performance	Low-power electronics
Software quality	Microwave ovens
Software quality	Multimedia systems
Software reusability	Multimedia systems
· · · · · · · · · · · · · · · · · · ·	Multimedia communication
Software systemsSoftware tools	Multimedia computing
	Iviuitimedia databases
Authoring systemsSystem software	
File systems	Control systems
	Control systemsAutomatic control
Operating systemsProgram processors	Power generation control
	Automatic generation control
Utility programs	Bidirectional control
Software engineering	CAMAC
Capability maturity modelComputer aided software engineering	Centralized control
Formal verification	Closed loop systems
Programming environments	Control design
Reasoning about programs	Control design
Runtime	Control engineering
Dynamic compiler	Actuators
Runtime environment	Electrostatic actuators
Software architecture	Hydraulic actuators
Client-server systems	Intelligent actuators
Microarchitecture	Microactuators
Representational state transfer	Piezoelectric actuators
Software libraries	Pneumatic actuators
System recovery	Fasteners
Checkpointing	Microcontrollers
Core dumps	Regulators
Debugging	Servosystems
Time sharing computer systems	Servomotors
Virtual machine monitors	Switches
VII taai maonine montors	Contactors
	Microswitches
Consumer electronics	Optical switches
Ambient intelligence	Switchgear
Aribient intelligence	Circuit breakers
Audio-visual systems	Interrupters
Auditory displays	Relays
Headphones	Telecontrol equipment
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Thormostato	Majatura control
Thermostats	Moisture control
Controllability	Humidity control
Control system synthesis	Motion compensation
Decentralized control	Networked control systems
Distributed parameter systems	Nonlinear control systems
Delay systems	Open loop systems
Added delay	Optical control
Delay lines	Lighting control
Digital control	Optical variables control
Programmable control	Optimal control
Flow graphs	Bang-bang control
Feedback	Infinite horizon
Feedback circuits	PD control
Output feedback	Pi control
Negative feedback	Pneumatic systems
Neurofeedback	Pressure control
Fluid flow control	Proportional control
Fluidics	Radio control
Microfluidics	Robot control
Nanofluidics	Robot motion
Linear feedback control systems	SCADA systems
Frequency locked loops	Sensorless control
Phase locked loops	Sliding mode control
State feedback	Supervisory control
Tracking loops	SCADA systems
Magnetic variables control	Thermal variables control
Mechanical variables control	Temperature control
Displacement control	Cooling
Force control	Heating
Level control	Thermal analysis
Gyroscopes	Thermomechanical processes
Motion control	Traffic control
Collision avoidance	Queueing analysis
Collision mitigation	Vehicle routing
Kinetic theory	g
Motion planning	
Path planning	Dielectrics and electrical insulation
Visual servoing	Dielectrics
Position control	Dielectric constant
Nanopositioning	High-K gate dielectrics
Shape control	Dielectric devices
Size control	Capacitors
Strain control	Ferroelectric devices
Stress control	Piezoelectric devices
Thickness control	Pyroelectric devices
Torque control	Dielectric losses
Velocity control	Dielectric losses
Angular velocity control	Dielectric substrates
Vibration control	Electrohydrodynamics
Weight control	Electronydrodynamics
Medical control systems	Electrostriction
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Electric breakdown	Physics education
Avalanche breakdown	Power engineering education
Corona	Qualifications
Dielectric breakdown	Training
Arc discharges	Industrial training
Discharges (electric)	Management training
Electrostatic discharges	On the job training
Flashover	Vocational training
Glow discharges	
Partial discharges	
Surface discharges	Electromagnetic compatibility and
Vacuum breakdown	interference
Sparks	Electromagnetic compatibility
Insulation	Immunity testing
Cable insulation	Reverberation chambers
Power cable insulation	Electromagnetics
Ceramics	Electromagnetic analysis
Porcelain	Air gaps
Gas insulation	Computational electromagnetics
Sulfur hexafluoride	Delay effects
Insulators	Electromagnetic fields
Metal-insulator structures	Electromagnetic forces
Plastic insulators	Electromagnetic refraction
Rubber	Permeability
Topological insulators	Spark gaps
Trees - insulation	Time-domain analysis
Isolation technology	Electromagnetic coupling
Oil insulation	Mutual coupling
Oil filled cables	Optical coupling
Plastic insulation	Electromagnetic devices
	Electromagnetic induction
	Eddy currents
Education	Inductive power transmission
Computer science education	Electromagnetic metamaterials
Continuing education	Electromagnetic radiation
Education courses	Correlators
Educational institutions	Electromagnetic wave absorption
Educational technology	Frequency
Computer aided instruction	Gamma-rays
Courseware	Line-of-sight propagation
Electronic learning	Electromagnetic shielding
Engineering education	Cable shielding
Biomedical engineering education	Magnetic shielding
Communication engineering education	Electromagnetic transients
Control engineering education	EMP radiation effects
Electrical engineering education	EMTDC
Electronics engineering education	EMTP
Engineering students	Power system transients
Power engineering education	Surges
Student experiments	Proximity effects
Student experimentsSystems engineering education	Interference
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Clutter	Light trapping
Crosstalk	Quantum computing
Diffraction	Quantum cellular automata
Echo interference	Quantum well devices
Electromagnetic interference	Quantum well lasers
Radiofrequency interference	Quantum cascade lasers
Specific absorption rate	Quantum wells
Electromagnetic radiative interference	Two dimensional hole gas
Electrostatic interference	Semiconductivity
Immunity testing	Semiconductor devices
Interchannel interference	Flip-chip devices
Interference cancellation	Gunn devices
Interference channels	Hall effect devices
Interference constraints	Junctions
Interference elimination	Heterojunctions
Interference suppression	Hybrid junctions
Intersymbol interference	P-n junctions
Rain fading	Waveguide junctions
Terrain factors	MIS devices
TV interference	Charge coupled devices
	MOS devices
	MONOS devices
Electron devices	Piezoresistive devices
Cathode ray tubes	P-i-n diodes
Electron guns	Power semiconductor devices
Electron multipliers	Power transistors
Electron tubes	Power semiconductor switches
Field emitter arrays	Bipolar transistors
Klystrons	Thyristors
Magnetrons	Quantum dots
Thyratrons	Quantum well lasers
Mechatronics	Quantum cascade lasers
Biomechatronics	Schottky diodes
Microelectromechanical systems	Semiconductor counters
Microelectromechanical devices	Semiconductor detectors
Microactuators	Semiconductor device modeling
Micromotors	Semiconductor device noise
Micropumps	Semiconductor diodes
Microvalves	P-i-n diodes
Radiofrequency	Schottky diodes
microelectromechanical systems	Semiconductor-metal interfaces
Microfluidics	Superluminescent diodes
Micromechanical devices	Varactors
Biomedical microelectromechanical	Semiconductor-insulator interfaces
systems	Semiconductor lasers
Fluidic microsystems	Laser tuning
Microfabrication	Quantum dot lasers
Photoelectricity	Quantum well lasers
Photovoltaic effects	Semiconductor laser arrays
Shunts (electrical)	Semiconductor optical amplifiers
Photovoltaic cells	Surface emitting lasers



Semiconductor waveguidesArtSilicon devicesCharacter generationSONOS devicesComputer graphicsSuperluminescent diodesEngineering drawings
SONOS devicesComputer graphics
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Surface emitting lasersLayout
lasersSymbols
Virtual reality
Visualization
Green design
Ecodesign
PhototransistorsProcess design
Single electron devicesPattern formation
Single electron memoryProduct design
Prototypes
Single electron transistorsTechnical drawing
Thick film devicesTime to market
Thick film inductorsUser centered design
Thin film devicesVirtual prototyping
Film bulk acoustic resonators
Thin film inductors
Thin film transistors Engineering - general
Organic thin film transistorsAcoustical engineering
TunnelingAgricultural engineering
Gate leakageChemical engineering
Josephson effectCivil engineering
Magnetic tunnelingRailway engineering
Resonant tunneling devicesRailway safety
Tunneling magnetoresistanceStructural engineering
Vacuum technologyOffshore installations
PhotomultipliersConcurrent engineering
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Vacuum systemsDesign engineering
GetteringElectrical engineering
Electrical engineering computing
Engineering profession
Electronic design automation andMaintenance engineering
methodologyPredictive maintenance
Design automationPreventive maintenance
CADCAMCondition monitoring
Logic designMechanical engineering
Reconfigurable logicMechanical power transmission
PSCADTorque converters
Design methodologyMechanical systems
Design for disassemblyMechanical energy
Design for experimentsMicromechanical devices
Design for manufacturePrecision engineering
Design for qualityProduction engineering
Design for testabilityProduction planning
GraphicsCapacity planning



Drocess planning	Anatomy
Process planning	Anatomy
Research and development	Molecular communication
Reverse engineering	Organisms
Sanitary engineering	Biology computing
Standardization	Biophotonics
Formal specifications	Biophysics
Guidelines	Aerospace biophysics
Standards	Biomagnetics
ANSI standards	Cellular biophysics
Code standards	Molecular biophysics
Communication standards	Evolution (biology)
IEC standards	Memetics
IEEE standards	Phylogeny
ISO standards	Genetics
Measurement standards	DNA
Military standards	Gene therapy
Software standards	Genetic communication
Standards activities board	Genetic expression
Standards organizations	Genetic programming
Telecommunication standards	Genomics
Universal Serial Bus	Microinjection
	Nanobioscience
Thermal engineering	
	DNA computing
For all and a substantial and black and	Nanobiotechnology
Engineering in medicine and biology	Physiology
Bioinformatics	Predator prey systems
Biology	Synthetic biology
Biochemistry	Systematics
Amino acids	Systems biology
Biochemical analysis	Vegetation
Peptides	Crops
Proteins	Marine vegetation
Biodiversity	Zoology
Biogeography	Animals
Bioelectric phenomena	Biomedical communication
Electric shock	Biomedical telemetry
Biological cells	Telemedicine
Cells (biology)	Biomedical computing
Chromosome mapping	Biomedical informatics
Fibroblasts	Medical expert systems
RNA	Medical information systems
Stem cells	Electronic medical records
Biological information theory	Biomedical engineering
Biological processes	Bioimpedance
Biological interactions	Biological techniques
Chronobiology	Biomedical applications of radiation
Circadian rhythm	Biomedical electronics
Coagulation	Biomedical signal processing
Symbiosis	Biomedical image processing
Biological system modeling	Biotechnology
Biological systems	Cloning



Down delivers	O a manufation at his absorbation
Drug delivery	Computational biochemistry
Targeted drug delivery	Computational biophysics
Neural engineering	Computational systems biology
Neural microtechnology	Genetic engineering
Neural nanotechnology	Medical services
Neural prosthesis	Assisted living
Protein engineering	Catheterization
Tissue engineering	Clinical diagnosis
Regeneration engineering	Cybercare
Biomedical equipment	Health information management
Assistive technology	Hospitals
Assistive devices	In vitro
Wheelchairs	In vitro fertilization
Biomedical electrodes	In vivo
Biomedical telemetry	Medical conditions
Biomedical transducers	
Catheters	Aneurysm Arteriosclerosis
Cybercare	Arthritis
Endoscopes	Atrophy
Gerontechnology	Blindness
Hypodermic needles	Cancer
Implantable biomedical devices	Deafness
Implants	Diabetes
Auditory implants	Diseases
Brainstem implants	Epilepsy
Cochlear implants	Hemorrhaging
Microelectronic implants	Hypertension
Intracranial pressure sensors	Hyperthermia
Lithotriptors	Influenza
Pacemakers	Injuries
Stethoscope	Pregnancy
Surgical instruments	Retinopathy
Laparoscopes	Sleep apnea
Biomedical imaging	Thrombosis
Angiocardiography	Tumors
Angiography	Medical diagnosis
Biomedical optical imaging	Autopsy
Cardiography	Bronchoscopy
Echocardiography	Colonography
Electrocardiography	Computer aided diagnosis
Phonocardiography	Medical signal detection
DICOM	Nanomedicine
Encephalography	Plethysmography
Mammography	Sensitivity and specificity
Medical diagnostic imaging	Medical tests
Anatomical structure	Amniocentesis
Molecular imaging	Biopsy
Phantoms	Cancer detection
Bionanotechnology	Colonoscopy
Bioterrorism	Pregnancy test
Computational biology	Medical treatment



Anesthesia	Engineering management
Angioplasty	Business
Brachytherapy	Business data processing
Brain stimulation	Industrial relations
Cardiology	Management
Chemotherapy	Asset management
Clinical trials	Best practices
Defibrillation	Business continuity
Dentistry	Business process re-engineering
Electrical stimulation	Communication system operations
Electronic medical prescriptions	and management
Embolization	Content management
Fibrillation	
	Contingency managementContracts
Gastroenterology	
Gerontology	Customer relationship management
Gynecology	Decision making
Hepatectomy	Enterprise resource planning
Hospitals	Facilities management
Hyperthermia	Financial management
Lithotripsy	Governmental factors
Magnetic stimulation	Human resource management
Neonatology	Information management
Neuromuscular stimulation	International collaboration
Neutron capture therapy	Knowledge management
Noninvasive treatment	Marketing management
Oncology	Organizational aspects
Orthopedic procedures	Outsourcing
Orthotics	Process planning
Pathology	Production management
Patient rehabilitation	Project management
Pediatrics	Public relations
Pharmaceuticals	Quality management
Surgery	Research and development
Occupational medicine	management
Prosthetics	Resource management
Artificial biological organs	Risk analysis
Artificial limbs	Storage management
Prosthetic hand	Supply chain management
Prosthetic limbs	Operations research
Visual prosthesis	Inventory control
Public healthcare	Virtual enterprises
Sensory aids	Organizations
Hearing aids	BNSC
Vaccines	Companies
X-rays	Government
X-ray applications	Sociotechnical systems
X-ray detection	Commercialization
X-ray scattering	Economics
X-ray tomography	Costs
Nuclear medicine	Cost benefit analysis
Synthetic biology	Econometrics



Economic forecasting	Product life cycle management
Economic indicators	Product life cycle management
Share pricesElectronic commerce	management Time to market
Environmental economics	
	Project engineering
Carbon tax	Scheduling
Exchange rates	Adaptive scheduling
Fuel economy	Dynamic scheduling
International trade	Job shop scheduling
Macroeconomics	Single machine scheduling
Privatization	Research and development
Microeconomics	management
Economies of scale	Innovation management
Industrial economics	Research initiatives
Monopoly	Software development management
Oligopoly	Agile software development
Power generation economics	Scrum (Software development)
Electricity supply industry	Technology management
deregulation	
Profitability	
Stock markets	Geoscience and remote sensing
Supply and demand	Environmental factors
Trade agreements	Biosphere
Venture capital	Ecosystems
Virtual enterprises	Environmental economics
Innovation management	Carbon tax
Legal factors	Environmental monitoring
Copyright protection	Global warming
Software protection	Green products
Law	Green buildings
Censorship	Green cleaning
Commercial law	Pollution
Consumer protection	Air pollution
Contract law	Industrial pollution
Criminal law	Land pollution
Employment law	Oil pollution
Forensics	Radioactive pollution
Law enforcement	Thermal pollution
Patent law	Urban pollution
Trademarks	Water pollution
Law enforcement	Geographic information systems
Patents	Geospatial analysis
Product liability	Gunshot detection systems
Warranties	Geophysical measurements
Software protection	Geodesy
Trademarks	Level measurement
Market research	Sea measurements
Product development	Geoacoustic inversion
Graphical user interfaces	Seismic measurements
Avatars	Geophysical measurement techniques
Product customization	Geophysical signal processing



Canadana	Occan calinity
Geoscience	Ocean salinity
Antarctica	Ocean temperature
South Pole	Sea coast
Arctic	Sea floor
North Pole	Sea level
Atmosphere	Sea surface
Atmospheric modeling	Tides
Atmospheric waves	Rivers
Biosphere	Sediments
Continents	Soil
Africa	Soil moisture
Asia	Soil properties
Australia	Soil texture
Europe	Tornadoes
North America	Tsunami
South America	Volcanoes
Cyclones	Planetary volcanoes
Hurricanes	Volcanic activity
Tropical cyclones	Volcanic activity
Earth	Land surface temperature
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Earthquakes	Photometry Radar
Earthquake engineering	
Forestry	Airborne radar
Geoengineering	Bistatic radar
Geography	Doppler radar
Cities and towns	Ground penetrating radar
Rural areas	Laser radar
Urban areas	Meteorological radar
Geology	Millimeter wave radar
Minerals	Multistatic radar
Rocks	MIMO radar
Geophysics	Passive radar
EMTDC	Radar applications
Extraterrestrial phenomena	Radar countermeasures
Geodynamics	Radar detection
Geophysics computing	Radar imaging
Meteorology	Radar measurements
Moisture	Radar polarimetry
Seismology	Radar remote sensing
Surface waves	Radar tracking
Well logging	Radar clutter
lce	Radar cross-sections
lce shelf	Radar equipment
lce surface	Radar theory
lce thickness	Spaceborne radar
Sea ice	Spread spectrum radar
Lakes	Synthetic aperture radar
Land surface	Inverse synthetic aperture radar
Levee	Polarimetric synthetic aperture
Meteorological factors	radar
Oceans	Ultra wideband radar
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Radiometry	Scholarships
Microwave radiometry	Intersociety activities
Radiometers	Local activities
Spectroradiometers	Member and Geographic Activities
Remote sensing	Conferences
Hyperspectral sensors	Meetings
Hyperspectral imaging	Nominations and elections
Passive microwave remote sensing	Organizing
Remote monitoring	Professional activities
Terrain mapping	Career development
Digital elevation models	Certification
Terrestrial atmosphere	Consortia
Clouds	Continuing education
Global warming	Employment
lonosphere	Ethics
Magnetosphere	Intellectual property
Vegetation mapping	Legislation
	Meetings
	Professional aspects
IEEE organizational topics	Public policy
IEEE activities	Publishing activities
Awards activities	Books
Corporate recognition awards	CD-ROMs
External awards	Conference proceedings
Honorary membership	Indexes
Medals	Standards publication
Prize paper awards	Standards activities
Scholarships	Standards development
Service awards	Standards publication
Student awards	Student activities
Technical field awards	Technical activities
Conferences	Conferences
Corporate activities	Meetings
	Technical Activities Guide - TAG
Ethics	United States activities
Finance	Career development
Legislation	Continuing education
Meetings	Employment
Member relations	Ethics
Membership development	Intellectual property
Motion-planning	Legislation
Planning	PACE network
Public relations	Public policy
Strategic planning	Volunteer activities
Technology planning	Audit Committee
Educational activities	Board of Directors Awards Board
Accreditation	Committee
Career development	Credentials Committee
Continuing education	Ethics Committee
Curriculum development	Executive Committee
Educational programs	Fellow Committee
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Life Members Committee	Operations Council
	Operations CouncilOutreach Council
Member Conduct Committee	
Nominations and elections	Professional Activities Council
Strategic Planning Committee	Systems Council
Tellers Committee	Technical Councils
	Technical Field Awards Council
IEEE entities	Technology Policy Council
Boards	IEEE Computer Society Press
Board of Directors	IEEE Foundation
Educational Activities Board	IEEE Press
IEEE Press Editorial Board	Regions
IEEE Spectrum Editorial Board	Chapters
Member and Geographic Activities	Region 1
Board	Region 10
Proceedings Editorial Board	Region 2
Publications Board	Region 3
Standards Board	Region 4
Technical Activities Board	Region 5
The Institute Editorial Board	Region 6
United States Activities Board	Region 7
Center for the History of Electrical	Region 8
Engineering	Region 9
History	Sections
Chapters	Student Chapters
Student Chapters	Sections
Committees	Chapters
Awards committees	Student Chapters
Board committees	Societies
Communities	IEEE Aerospace and Electronic
New Technology Connections	Systems Society .
Portal	IEEE Antennas and Propagation
Online Communities/Technical	Society
Collaboration	IEEE Broadcast Technology
Standards Working Groups	Society
Councils	IEEE Circuits and Systems Society
Accreditation Policy Council	IEEE Communications Society
Career Policy Council	IEEE Components, Packaging, and
Geographic Councils	Manufacturing Technology Society
IEEE Biometrics Council	IEEE Computational Intelligence
IEEE Council on Electronic Design	Society
Automation	IEEE Computer Society
IEEE Council on Superconductivity	IEEE Consumer Electronics Society
IEEE Nanotechnology Council	IEEE Control Systems Society
IEEE Sensors Council	IEEE Dielectrics and Electrical
IEEE Systems Council	Insulation Society
IEEE Technology Management	IEEE Education Society
Council	IEEE Electromagnetic Compatibility
Lifelong Learning Council	Society
Member Activities Council	IEEE Electron Devices Society
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Nanotechnology Council	Biology Society



IEEE Geoscience and Remote Sensing Society IEEE Industry Applications Society IEEE Industry Applications Society IEEE Industry Applications Society IEEE Instrumentation and Measurement Society IEEE Lasers and Electro-Optics IEEE Magnetics Society IEEE Magnetics Society IEEE Microwave Theory and IEEE Microwave Theory and IEEE Microwave Theory and IEEE Power Betronics Society IEEE Power Electronics Society IEEE Reliability Society IEEE Reliability Society IEEE Society on Social Implications of Technology IEEE Society on Social Implications of Technology IEEE Society	IEEE Engineering Management	Student members
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IEEE Power Electronics Society		•
IEEE Power & Energy Society	•	
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Tutorials	IEEE Antennas and Propagation
IEEE Computer Architecture Letters	Magazine
IEEE Electrochemical and Solid-	IEEE Circuits and Devices
State Letters	IEEE Communications Magazine
IEEE Electron Device Letters	IEEE Computational Intelligence
IEEE Embedded Systems Letters	IEEE Computational Science and
IEEE Journal of	Engineering
Microelectromechanical Systems	IEEE Computer Applications in
IEEE Journal of Oceanic	Power
Engineering	IEEE Computer Graphics and
IEEE Journal of Quantum	Applications
Electronics	IEEE Computer Magazine
IEEE Journal of Robotics and	IEEE Concurrency
Automation	IEEE Control Systems
IEEE Journal of Selected Topics in	IEEE Design and Test of
Applied Earth Observation and Remote	Computers
Sensing	IEEE Electrical Insulation Magazine
IEEE Journal of Selected Topics in Quantum Electronics	IEEE Engineering in Medicine and Biology Magazine
IEEE Journal of Selected Topics in	IEEE Engineering Management
Signal Processing	Review
IEEE Journal of Solid-State Circuits	IEEE Industrial Electronics
IEEE Journal of Technology	Magazine
Computer Aided Design	IEEE Industry Applications
IEEE Journal on Selected Areas in	Magazine
Communications	IEEE Instrumentation and
IEEE Latin America Learning	Measurement Magazine
Technologies Journal [IEEE-RITA]	IEEE Intelligent Systems and their
IEEE Learning Technology	Applications
IEEE Magnetics Letters	IEEE Intelligent Transportation
IEEE Microwave and Guided Wave	Systems Magazine
Letters	IEEE Internet Computing
IEEE/OSA Journal of Display	IEEE Micro
Technology	IEEE Multidisciplinary Engineering
IEEE/OSA Journal of Lightwave	Education Magazine
Technology	IEEE Multimedia
IEEE/OSA Journal of Optical	IEEE Nanotechnology Magazine
Communications and Networking	IEEE Network
IEEE Photonics Journal	IEEE Personal Communications
IEEE Photonics Technology Letters	IEEE Potentials
IEEE Reviews in Biomedical	IEEE Power Engineering Review
Engineering	IEEE Robotics and Automation
IEEE Signal Processing Letters	Magazine
IEEE Systems Journal	IEEE Signal Processing Magazine
Proceedings of the IEEE	IEEE Software
IEEE magazines	IEEE Solid-State Circuits Magazine
IEEE Aerospace and Electronics	IEEE Spectrum
Society Magazine	IEEE Technology and Society
	Magazine



IEEE-USA Today's Engineer	Ultrasonics, Ferroelectrics, and
IEEE newsletters	Frequency Control Society Newsletter
Broadcast Technology Society Newsletter	Vehicular Technology Society Newsletter
Center for the History of Electrical	IEEE online publications
Engineering Newsletter	IEEE Bibliographies On-line
Circuits and Systems Society	IEEE Circuitboard
Newsletter	IEEE Communications Interactive
Components, Packaging, and	IEEE Communications Surveys &
Manufacturing Technology Society	Tutorials
Newsletter	IEEE Distributed Systems Online
Consumer Electronics Society	IEEE Electrochemical and Solid-
Newsletter	State Letters
Education Society Newsletter	IEEE Electronic catalog
Electromagnetic Compatibility	IEEE Journal of Technology
Society Newsletter	Computer Aided Design
Electron Devices Society	IEEE Journals and Transactions
Newsletter	On-LINE - OpeRA
Electronics and the Environment	IEEE Latin America Learning
Newsletter	Technologies Journal [IEEE-RITA]
Engineering Management Society	IEEE Latin America Transactions
Newsletter	[Revista IEEE America Latina]
Geoscience and Remote Sensing	IEEE Learning Technology
Society Newsletter	IEEE Looking Forward
IEEE Circuitboard	IEEE Multidisciplinary Engineering
IEEE Looking Forward	Education Magazine
IEEE Publications Bulletin	IEEE Network Interactive
Industrial Electronics Society	IEEE Personal Communications
Newsletter	InteractiveIEEE Photonics Journal
Information Theory Society Newsletter	IEEE Transactions on
Instrumentation and Measurement	Computational Intelligence and Al in
Society Newsletter	Games
Lasers and Electro-Optics Society	IEEE Transactions on Learning
Newsletter	Technologies
Magnetics Society Newsletter	IEEE Transactions on Network and
Microwave Theory and Techniques	Service Management
Society Newsletter	IEEE Transactions on Services
Nuclear and Plasma Sciences	Computing
Society Newsletter	IEEE standard glossaries
Oceanic Engineering Society	IEEE transactions
Newsletter	IEEE/ACM Transactions on
Power Electronics Society	Networking
Newsletter	IEEE Biometrics Compendium
Professional Communication	IEEE Latin America Transactions
Society Newsletter	[Revista IEEE America Latina]
Reliability Society Newsletter	IEEE Transactions on Aerospace
Systems, Man and Cybernetics	and Electronic Systems
Society Newsletter	IEEE Transactions on Affective
The Institute	Computing
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IEEE Transactions on Antennas	IEEE Transactions on
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Superconductivity	Devices
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IEEE Transactions on Automatic	IEEE Transactions on Engineering
Control	Management
IEEE Transactions on Automation	IEEE Transactions on Evolutionary
Science and Engineering	Computation
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Mental Development	Systems
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Circuits and Systems	and Remote Sensing
IEEE Transactions on Biomedical	IEEE Transactions on Haptics
Engineering	IEEE Transactions on Image
IEEE Transactions on Broadcasting	Processing
IEEE Transactions on Circuits and	IEEE Transactions on Industrial
Systems for Video Technology	Electronics
IEEE Transactions on Circuits and	IEEE Transactions on Industry
Systems I: Fundamental Theory and	Applications
Applications	IEEE Transactions on Information
IEEE Transactions on Circuits and	Forensics and Security
Systems II: Analog and Digital Signal	IEEE Transactions on Information
Processing	Technology in Biomedicine
IEEE Transactions on	IEEE Transactions on Information
Communications	Theory
IEEE Transactions on Components,	IEEE Transactions on
Packaging, and Manufacturing Technology	Instrumentation and Measurement
Part A	IEEE Transactions on Knowledge
IEEE Transactions on Components,	and Data Engineering
Packaging, and Manufacturing Technology	IEEE Transactions on Learning
Part B	Technologies
IEEE Transactions on Components,	IEEE Transactions on Magnetics
Packaging, and Manufacturing Technology	IEEE Transactions on Mechatronics
Part C	IEEE Transactions on Medical
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Computational Intelligence and AI in	IEEE Transactions on Microwave
Games	Theory and Techniques
IEEE Transactions on Computer-	IEEE Transactions on
Aided Design of Integrated Circuits and	Nanotechnology
Systems	IEEE Transactions on Network and
IEEE Transactions on Computers	Service Management
IEEE Transactions on Consumer	IEEE Transactions on Neural
Electronics	Networks
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Systems Technology	Science
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and Electrical Insulation	Analysis and Machine Intelligence
IEEE Transactions on Education	IEEE Transactions on Plasma
	Science



IEEE Transactions on Power	Electronic mail
DeliveryIEEE Transactions on Power	Financial advantage programIEEE Bibliographies On-line
Electronics	IEEE Electronic catalog
IEEE Transactions on Power	Job listing service
Systems	Membership renewal
IEEE Transactions on Professional	Travel services
Communication	Web and internet services
IEEE Transactions on Rehabilitation	Subscriptions
Engineering	Web and internet services
IEEE Transactions on Reliability	Electronic mail
IEEE Transactions on Robotics	IEEE Electronic catalog
IEEE Transactions on Robotics and	IEEE Journals and Transactions
Automation	On-LINE - OpeRA
IEEE Transactions on	Online banking
Semiconductor Manufacturing	IEEE web sites
IEEE Transactions on Services	Society home pages
Computing	Web page design
IEEE Transactions on Signal	
Processing	
IEEE Transactions on Smart Grid	Imaging
IEEE Transactions on Software	Biomedical imaging
Engineering	Angiocardiography
IEEE Transactions on Speech and	Angiography
Audio ProcessingIEEE Transactions on Sustainable	Biomedical optical imaging
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and Reviews	Molecular imaging
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Ferroelectrics and Frequency Control	Cameras
IEEE Transactions on Vehicular	Digital cameras
Technology	Webcams
IEEE Transactions on Very Large	Focusing
Scale Integration - VLSI	Ground penetrating radar
IEEE Transactions on Visualization	Holography
and Computer Graphics	Image converters
IEEE Women in Engineering	Image intensifiers
Notice of Violation	Image sensors
IEEE services Ask IEEE	Active pixel sensors
Conference management	CCD image sensorsCharge-coupled image sensors
Meeting services	CMOS image sensors
Member services	Infrared image sensors
Career development	Image storage
Ourdor development	mage storage

Infrared imaging	Predictive control
Night vision	Three-term control
Magnetic resonance imaging	Two-term control
Diffusion tensor imaging	Production control
Magneto electrical resistivity imaging	Continuous production
technique	Lot sizing
Microscopy	Optimized production technology
Atomic force microscopy	Scheduling
Electron microscopy	Integrated manufacturing systems
Photoelectron microscopy	Machine control
Scanning electron microscopy	Machine vector control
Transmission electron microscopy	Manufacturing automation
Scanning probe microscopy	Computer aided manufacturing
Microwave imaging	CADCAM
Motion pictures	Silicon compiler
Multispectral imaging	Computer integrated manufacturing
Nuclear imaging	Computer numerical control
Energy resolution	Flexible manufacturing systems
Optical imaging	Testing
Talbot effect	Aerospace testing
	Aerospace testing
Thermoreflectance imaging	Automatic testing
Photography	
Cinematography	Ring generators
Digital photography	Benchmark testing
Image forensics	Built-in self-test
Photomicrography	Circuit testing
Radiation imaging	Integrated circuit measurements
Radiography	Electronic equipment testing
Diagnostic radiography	Immunity testing
Stereo vision	Error analysis
Stereo image processing	Bit error rate
Tomography	Finite wordlength effects
Computed tomography	Error-free operations
Electrical capacitance tomography	Failure analysis
Positron emission tomography	Equipment failure
Whole-body PET	Semiconductor device breakdown
Reconstruction algorithms	Frequency response
Single photon emission computed	Impulse testing
tomography	Insulator testing
	Insulation testing
	Integrated circuit testing
Industrial electronics	Integrated circuit yield
Assembly systems	Logic testing
Flexible electronics	Life testing
Robotic assembly	Materials testing
Computer aided manufacturing	Accelerated aging
CADCAM	Acoustic testing
Silicon compiler	Adhesive strength
Cryogenic electronics	Bonding forces
Industrial control	Delamination
Process control	Elastic recovery
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Nondestructive testing	Electrostatic devices
Optical fiber testing	Electrostatic precipitators
Remaining life assessment	Electrostatic processes
Ring generators	Aerosols
Semiconductor device testing	Electrophotography
Software testing	Electrostatic analysis
System testing	Electrostatic induction
Model checking	Electrostatics
Test equipment	Electrostatic levitation
Automatic test equipment	Particle charging
Test facilities	Particle production
Anechoic chambers	Space charge
Laboratories	Surface charging
Large Hadron Collider	Triboelectricity
Open area test sites	Triboelectricity
TEM cells	Engines
	Heat engines
	Steam engines
Industry applications	Stirling engines
Accident prevention	Internal combustion engines
Accidents	Diesel engines
Aerospace accidents	Ignition
Electrical accidents	Jet engines
Industrial accidents	Environmental management
Marine accidents	Biodegradation
Railway accidents	Biodegradable materials
Road accidents	Land use planning
Chemical technology	Pest control
Chemical reactors	Pollution control
Bioreactors	Recycling
Continuous-stirred tank reactor	Renewable energy sources
Ignition	Biomass
Chemical sensors	Sustainable development
Crystallizers	Waste management
Distillation equipment	Waste disposal
Fluidization	Waste handling
Pharmaceutical technology	Waste recovery
Vitrification	Waste reduction
Cryogenics	Water conservation
Electrochemical devices	Desalination
Amperometric sensors	Water resources
Batteries	Desalination
Lithium batteries	Reservoirs
Battery management systems	Food technology
Fuel cells	Food preservation
Supercapacitors	High-temperature techniques
Electrochemical processes	Rapid thermal processing
Electromechanical systems	Industrial engineering
Electromechanical devices	Industrial communication
Armature	Industries
SAW filters	Agriculture
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Agricultural products	Electricity supply industry
Agricultural products	Nuclear facility regulation
Fertilizers	, ,
	Power system interconnection
Greenhouses	Sugar industry
Irrigation	Sugar refining
Architecture	Textile technology
Banking	Spinning
Beverage industry	Weaving
Chemical industry	Toy industry
Coal industry	Wood industry
Communication industry	Inspection
Computer industry	Automatic optical inspection
Construction	Machinery
Buildings	Agricultural machinery
Green buildings	Ball bearings
Modular construction	Belts
Prefabricated construction	Drives
Construction industry	Hydraulic drives
Prefabricated construction	Motor drives
Defense industry	Variable speed drives
Entertainment industry	Electric machines
Gas industry	AC machines
Manufacturing industries	Alternators
Aerospace industry	Brushless machines
Cement industry	Compressors
Ceramics industry	Conductors
Clothing industry	DC machines
Electrical products industry	Electric fences
Electronics industry	Generators
Food industry	Permanent magnet machines
Footwear industry	Rotating machines
Fuel processing industries	Rotors
Glass industry	Stators
Machinery production industries	Washing machines
Metal product industries	Fans
Plastics industry	Furnaces
Pulp and paper industry	Blast furnaces
Rubber industry	Kilns
Shipbuilding industry	Gears
Textile industry	Hydraulic systems
Toy manufacturing industry	Electrohydraulics
Metals industry	Hydraulic equipment
Mining industry	Hydraulic fluids
Coal mining	Machine components
Natural gas industry	Air cleaners
Petroleum industry	Belts
Oil drilling	Cams
Oil refineries	Engine cylinders
Well logging	Exhaust systems
Power industry	Impellers
Electrical equipment industry	Intake systems



Manifolds	Chamical products
	Chemical products
Mechanical splines	Consumer products
Pistons	Electrical products
Rotors	Food products
Shafts	Fuels
Valves	Glass products
Motors	Mechanical products
AC motors	Metal products
Brushless motors	Paper products
Commutation	Paper pulp
DC motors	Plastic products
Electric motors	Rubber products
Hysteresis motors	Sports equipment
Induction motors	Textile products
Micromotors	Windows
Permanent magnet motors	Manufacturing systems
Servomotors	Agile manufacturing
Traction motors	Automobile manufacture
Universal motors	Batch production systems
Printing machinery	Blanking
Pumps	Cellular manufacturing
Fuel pumps	Flow production systems
Heat pumps	Food manufacturing
Micropumps	Forging
Textile machinery	Glass manufacturing
Spinning machines	Integrated manufacturing systems
Manufacturing	Integrated manufacturing systems
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Assembly	Job production systems
Fitting	Joining processes
Microassembly	Layered manufacturing
Preforms	Lean production
Soldering	Manufacturing processes
Assembly systems	Mass production
Flexible electronics	Melt processing
Robotic assembly	Pulp manufacturing
Embossing	Sheet metal processing
Fabrication	Thermoforming
Bonding processes	Mass customization
Microfabrication	Tolerance analysis
Optical device fabrication	Packaging
Soldering	Bagging
Welding	Bottling
Lithography	Canning
Colloidal lithography	Encapsulation
Interferometric lithography	Labeling
Nanolithography	Multichip modules
Soft lithography	Plastic packaging
Stereolithography	Wrapping
X-ray lithography	Paper technology
Manufactured products	Production
Ceramic products	Ball milling
Ocramio producto	ball filling



Compression molding	Process planning
Embossing	Cause effect analysis
	Production control
Food products	
Dairy products	Continuous production
Fats	Lot sizing
Sugar	Optimized production technology
Group technology	Scheduling
Injection molding	Production engineering
Materials processing	Production planning
Annealing	Production equipment
Bleaching	Applicators
Casting	Clamps
Coatings	Cutting tools
Curing	Fixtures
Etching	Machine tools
Heat treatment	Mining equipment
Joining processes	Molding equipment
Lamination	Packaging machines
Machining	Paper making machines
Melt processing	Polishing machines
Plasma materials processing	Soldering equipment
Pressing	Production facilities
Punching	Foundries
Refining	Greenhouses
Shearing	Industrial plants
Smelting	Machine shops
Softening	Paper mills
Swaging	Production management
Mechanical products	Control charts
Automotive components	Inventory management
Axles	Lead time reduction
Bellows	Logistics
Blades	Process planning
Couplings	Production planning
Fasteners	Production materials
Flanges	Abrasives
Gears	Aerospace materials
Hoses	Automotive materials
Machine components	Inhibitors
Mechanical guides	Ink
Needles	Joining materials
Orifices	Lubricants
Pistons	Retardants
Seals	Production systems
Springs	Assembly systems
Steering systems	Exhaust systems
Structural shapes	Intelligent manufacturing systemsLean production
Suspensions Tires	
Vents	Manufacturing systems
	Steering systems
Wheels	Productivity



Chafta	Dublia kay
Shafts	Public key
Camshafts	Random number generation
Springs	Data security
Suspensions	Cryptography
Shock absorbers	Message authentication
Transfer molding	Digital signatures
Safety	Information security
Aerospace safety	Intrusion detection
Air safety	Power system security
Domestic safety	Reconnaissance
Emergency services	Terrorism
Explosion protection	Bioterrorism
Hazards	National security
Biohazards	Watermarking
Chemical hazards	Wine industry
Explosions	Wineries
Fires	
Flammability	
Floods	Information theory
Hazardous areas	Audio coding
Hazardous materials	Biological information theory
Toxicology	Channel coding
Health and safety	Block codes
Occupational health	Linear codes
Occupational safety	Combined source-channel coding
Marine safety	Turbo codes
Product safety	Codes
Protection	Binary codes
Explosion protection	Reflective binary codes
Lightning protection	Convolutional codes
Radiation safety	Cyclic redundancy check codes
Safety devices	Error correction codes
Eye protection	Reed-Solomon codes
Protective clothing	Parity check codes
Vehicle safety	Iterative decoding
Security	Product codes
Access control	Bar codes
Authorization	Space-time codes
Alarm systems	Communication channels
Smoke detectors	Channel allocation
Computer security	Channel capacity
Authentication	Channel estimation
Computer crime	Channel models
Computer hacking	Channel spacing
Firewalls (computing)	Channel state information
Identity management systems	Gaussian channels
Invasive software	AWGN channels
Permission	Multipath channels
Cryptography	Multiuser channels
Ciphers	Partial response channels
Encryption	Throughput



Time-varying channels	Gain
Decoding	Impedance
Maximum likelihood decoding	Impedance matching
Encoding	Inductance
Audio coding	Permittivity
Channel coding	Piezoresistance
Block codes	Q-factor
Combined source-channel coding	Resistance
Turbo codes	Electric resistance
	Piezoresistance
Entropy coding	
Huffman coding	Surface resistance
Source coding	Thermal resistance
Speech coding	Viscosity
Transcoding	Voltage
Error compensation	Breakdown voltage
Genetic communication	Dynamic voltage scaling
Hamming distance	Threshold voltage
Hamming weight	Voltage fluctuations
Information entropy	Wiring
Mutual information	High energy physics instrumentation
Network coding	computing
Rate-distortion	Linear particle accelerator
Rate distortion theory	Instruments
Channel rate control	Compass
Source coding	Goniometers
Speech coding	Microscopy
	Atomic force microscopy
	Electron microscopy
Instrumentation and measurement	Scanning probe microscopy
Computerized instrumentation	Oscilloscopes
Electric variables	Potentiometers
Admittance	Pressure gauges
Capacitance	Probes
Parasitic capacitance	Radiometers
Quantum capacitance	Spectroradiometers
Capacitance-voltage characteristics	Telescopes
Conductivity	Theodolites
Photoconductivity	Tuners
Semiconductivity	Vibrometers
Transconductance	Voltmeters
Current	Watthour meters
Bioimpedance	Wattmeters
Current slump	Measurement
Dark current	Accelerometers
Fault currents	Acoustic measurements
Leakage currents	Antenna measurements
Persistent currents	Anthropometry
Short-circuit currents	Aritinopornetry
Threshold current	Atmospheric measurements
Current-voltage characteristics	Atomic measurements
Electric potential	Biomedical measurement



Biomedical monitoring Electroencephalography Electrooncycraphy Electromyography Electrophysiology Electrophysiology Photoplethysmography Reproducibility of results Sensitivity and specificity Calorimetry Coordinate measurement Hydrometers Distance measurement Euclidean distance Distortion measurement Dosimetry Doppler measurement Admittance measurement Admittance measurement Current measurement Current measurement Electrical resistance measurement Electromagnetic modeling Linearity Microwave measurement Millimeter wave measurement Millimeter wave measurement Electromagnetic modeling Linearity Radiometry Submillimeter wave measurement Extraterrestrial measurements Extraterrestrial measurement Moisture measurem	Diamarkara	Francisco damain analysis
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Fluid flow measurementMoisture measurement	Extraterrestrial measurements	
	Fluid flow measurement	
Frequency measurement	Frequency measurement	Humidity measurement



Noise measurement	UHF measurements
Multiple signal classification	Ultrasonic variables measurement
Noise figure	Viscosity
Noise shaping	Wavelength measurement
Nuclear measurements	Wide area measurements
Particle tracking	Monitoring
Optical variables measurement	Computerized monitoring
Ellipsometry	Environmental monitoring
Photometry	Patient monitoring
Reflection coefficient	Radiation monitoring
Refractive index	Radiation dosage
Particle beam measurements	Remote monitoring
Particle measurements	Surveillance
Performance evaluation	Infrared surveillance
Phase measurement	Video surveillance
pH measurement	Testing
Plasma measurements	Aerospace testing
Plethysmography	Automatic testing
Pollution measurement	Automatic test pattern generation
Pressure measurement	Ring generators
Altimetry	Benchmark testing
Tire pressure	Built-in self-test
Pulse measurements	Circuit testing
Reflectometry	Integrated circuit measurements
Reproducibility of results	Electronic equipment testing
Scintillation counters	Immunity testing
Solid scintillation detectors	Error analysis
Sea state	Bit error rate
Sea state	
	Finite wordlength effectsError-free operations
Sensitivity	•
Sensitivity analysis	Failure analysis
Shape measurement	Equipment failure
Size measurement	Semiconductor device breakdown
Software measurement	Frequency response
Software metrics	Impulse testing
Soil measurements	Insulator testing
Spectroscopy	Insulation testing
Electrochemical impedance	Integrated circuit testing
spectroscopy	Integrated circuit yield
Kirchhoff's Law	Logic testing
Mass spectroscopy	Life testing
MERIS	Materials testing
Neutron spin echo	Accelerated aging
Photoacoustic effects	Acoustic testing
Resonance light scattering	Adhesive strength
Thermal variables measurement	Bonding forces
Temperature measurement	Delamination
Time measurement	Elastic recovery
Clocks	Nondestructive testing
Time dissemination	Optical fiber testing
Timing	Remaining life assessment



Ring generators Semiconductor device testing Software testing Model checking Test equipment Automatic test equipment Lasers Laboratories Laboratories Large Hadron Collider Open area test sites TEM cells Telligent transportation systems Automated highways Geographic information systems Intelligent vehicles Vehicle routing Alarcraft navigation Course correction Dead reckoning Inertial navigation Radio navigation Satellite navigation Air transportation Air transportat		
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Birefringence	Electrooptic devices	•
	Electrochromic devices	Adaptive optics
Electrooptic modulatorsBrightness	Electrooptic deflectors	
	Electrooptic modulators	Brightness



Brightness temperature	Holographic optical components
Color	Lenses
Pigmentation	Light deflectors
Electron optics	Lighting
Extinction coefficients	Luminescent devices
Extinction ratio	Mirrors
Fiber optics	Optical arrays
Fiber optics	Optical arrays
Optical fibers	Optical attenuators
Fluorescence	Optical device fabrication
Four-wave mixing	Optical device labrication
Geometrical optics	Optical liters
Ray tracing	Optical resolutions
•	Thermooptical devices
Integrated optics	
Light sourcesElectroluminescent devices	Optical distortion
	Optical fiber applications
Fast light	Optical fiber devices
Luminescent devices	Optical harmonic generation
Phosphors	Optical losses
Slow light	Optical microscopy
Stray light	Optical mixing
Superluminescent diodes	Multiwave mixing
Ultraviolet sources	Optical polarization
Luminescence	Polarization shift keying
Bioluminescence	Stokes parameters
Electroluminescence	Optical pulses
Fluorescence	Optical retarders
Phosphorescence	Optical saturation
Photoluminescence	Optical solitons
Thermoluminescence	Optical tuning
Microoptics	Particle beam optics
Micromirrors	Atom optics
Nonlinear optics	Electron optics
Fiber nonlinear optics	Stimulated emission
Nonlinear optical devices	Photoluminescence
Optical mixing	Physical optics
Optical saturation	Optical refraction
Photorefractive effect	Optical vortices
Raman scattering	Ray tracing
Supercontinuum generation	Stray light
Optical amplifiers	Ultrafast optics
Doped fiber amplifiers	Whispering gallery modes
Erbium-doped fiber amplifiers	Optoelectronic devices
Semiconductor optical amplifiers	Charge-coupled image sensors
Optical crosstalk	Integrated optoelectronics
Optical design	Light emitting diodes
Optical design techniques	Inorganic light emitting diodes
Optical devices	LED lamps
Bragg gratings	Organic light emitting diodes
Collimators	Superluminescent diodes
Displays	Photoconducting devices



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	Nanophotonics	
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Materials, elements, and compounds		
Materials, elements, and compounds Biological materials Chemical elements Biomedical materials Boron Biomembranes Carbon Building materials Cerium Asphalt Darmstadtium Concrete Helium Floors Hydrogen Mortar Deuterium Tiles Isotopes Windows Lutetium Ceramics Nitrogen Porcelain Silicon nitride Composite materials Oxygen Conducting materials Roentgenium Corrosion inhibitors Tellurium Crystalline materials Titanium alloys Superlattices	Remanence	
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TelluriumCrystalline materialsNanocrystalsSuperlattices	Roentgenium	Corrosion inhibitors
Superlattices		Crystalline materials
Superlattices	Titanium	Nanocrystals
	Titanium alloys	Superlattices
	•	



Colloidal envetals	Magnetic superlattices
Colloidal crystals	•
Crystallography	Paramagnetic materials
Crystal microstructure	Soft magnetic materials
Grain boundaries	Material properties
Grain size	Creep
Liquid crystals	Elasticity
Dielectric materials	Resilience
Dielectric films	Media
Dielectric liquids	Nonhomogeneous media
Electrets	Random media
Epoxy resins	Mesoporous materials
High K dielectric materials	Metal foam
Piezoelectric materials	Metamaterials
Films	Electromagnetic metamaterials
Conductive films	Optical cloaking
Dielectric films	Optical metamaterials
Epitaxial layers	Nanostructured materials
Ferrimagnetic films	Nanocomposites
Ferrite films	Nanoporous materials
Garnet films	Oils
Magnetic films	Lubricating oils
Optical films	Vegetable oils
Piezoelectric films	Optical materials
Plastic films	Optical cloaking
Polymer films	Optical polymers
Semiconductor films	Optical retarders
Thick films	Optical superlattices
Thin films	Photorefractive materials
Fluids	Organic inorganic hybrid materials
Fluid dynamics	Organic materials
Gases	Paints
Hydraulic fluids	Paper pulp
Liquids	Petrochemicals
•	
Viscosity Hazardous materials	Phase change materials
	Photoconducting materialsPlastics
Inorganic materials	
Lacquers	Epoxy resins
Laminates	Fiber reinforced plastics
Magnetic materials	Plastic films
Amorphous magnetic materials	Plastic optical fiber
Antiferromagnetic materials	Polymer foams
Diamagnetic materials	Polymer gels
Ferrimagnetic films	Polymers
Ferrimagnetic materials	Liquid crystal polymers
Ferrite films	Optical polymers
Ferrites	Polyethylene
Garnet films	Polyimides
Garnets	Production materials
Magnetic films	Abrasives
Magnetic liquids	Aerospace materials
Magnetic semiconductors	Automotive materials



InhibitorsWireMaterials science and technology	
Joining materialsAbsorption	
LubricantsAging	
RetardantsAccelerated aging	
Radioactive materialsChemical analysis	
Nuclear fuelsActivation analysis	
•	
Radioactive decayChemical processesChemicals	
Raw materialsElectronic noses	
PH measurement	
Epoxy resinsContamination	
Surface contamination	
Semiconductor materialsDegradation	
Amorphous semiconductorsFiltration	
Elemental semiconductorsMicrofiltration	
Hysteresis	
Gallium arsenideImpurities	
Semiconductor impurities	
Materials handling	
II-VI semiconductor materialsCleaning	
Decontamination	
Freight handling	
Magnetic semiconductorsMaterials handling equipmer	nt
Organic semiconductorsRemote handling	
Semiconductor superlatticesMaterials preparation	
Doping	
Silicon germaniumFiring	
Substrateslon implantation	
Wide band gap semiconductorsLaser sintering	
Sheet materialsSputtering	
SolidsMaterials reliability	
Young's modulusMaterials reliability	
Superconducting materialsAccelerated aging	
Granular superconductorsAcoustic testing	
High-temperature superconductorsAdhesive strength	
Multifilamentary superconductorsBonding forces	
Delamination	
Type II superconductorsElastic recovery	
TextilesNondestructive testing	
CottonMicrostructure	
Periodic structures	
Textile fibersGratings	
Photonic crystals	
Pigmentation	
Pigments	
Electronic wasteSeparation processes	
Fractionation	
Radioactive wasteParticle separators	
SlurriesSurface engineering	
Surfaces	



Corrosion Corrugated surfaces Rough surfaces Rough surfaces Surface impedance Surface morphology Surface resistance Surface roughness Surface roughness Indium Surface soil Surface structures Surface tension Surface texture Surface tension Surface texture Surface treatment Surface troography Surface treatment Material storage Bulk storage Secure storage Secure storage Stacking Secure storage Stacking Storage automation Warehousing Metalls Metals Alloying Aluminum alloys Aluminum Barium compounds Barium Barium compounds Barium Baron Baron Cadmium Calcium compounds Strontium compounds Samarium Samarium Shoron Reaeroon Samarium Sitvel Steel Stoold alloys Indium
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Storage automation
WarehousingMetallizationMater storageIntegrated circuit metallization
Water storageIntegrated circuit metallization
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StrontiumStrontium compounds
Tin
Tin alloys
CopperTitanium
Titanium alloys
Digital alloysTungsten
Yttrium
Yttrium compounds



Zinc compounds	Viterbi algorithm
	Arithmetic
	Digital arithmetic
Mathematics	Fixed-point arithmetic
Accuracy	Floating-point arithmetic
Algebra	Azimuth
Abstract algebra	Azimuthal angle
Galois fields	Azimuthal component
Modules (abstract algebra)	Azimuthal current
Boolean algebra	Azimuthal harmonics
Boolean functions	Azimuthal plane
Linear algebra	Boundary value problems
Linear programming	Boundary conditions
Matrices	Upper bound
Vectors	Calculus
Set theory	Differential equations
Fuzzy sets	Differential algebraic equations
Fuzzy set theory	Navier-Stokes equations
Rough sets	Partial differential equations
Algorithms	Transfer functions
Adaptive algorithms	Integral equations
Adaptation models	Probability density function
Algorithm design and analysis	Level set
Approximation algorithms	Closed-form solutions
Backpropagation algorithms	Combinatorial mathematics
Basis algorithms	Graph theory
Change detection algorithms	Bipartite graph
Classification algorithms	Optimal matching
Clustering algorithms	Reachability analysis
Compression algorithms	Shortest path problem
Density estimation robust algorithm	Tree graphs
Detection algorithms	Steiner trees
Distributed algorithms	Computational efficiency
Dynamic programming	Conformal mapping
Filtering algorithms	Convergence
Genetic algorithms	Convex functions
Heuristic algorithms	Cyclic redundancy check
Inference algorithms	Cyclic redundancy check codes
Least mean square algorithms	Eigenvalues and eigenfunctions
Machine learning algorithms	Equations
Matching pursuit algorithms	Boltzmann equation
Maximum likelihood detection	Difference equations
MLFMA	Integrodifferential equations
Multicast algorithms	Maxwell equations
Parallel algorithms	Nonlinear equations
Partitioning algorithms	Bifurcation
Prediction algorithms	Polynomials
Projection algorithms	Riccati equations
Pursuit algorithms	Estimation
Signal processing algorithms	Estimation error
Software algorithms	Estimation theory
	Lournadori dioory



Cramar Dan haunda	Mathadafmamanta
Cramer-Rao bounds	Method of moments
Maximum a posteriori estimation	Minimization
Life estimation	Minimization methods
Maximum likelihood estimation	Mode matching methods
State estimation	Network theory (graphs)
Observers	Nonlinear equations
Yield estimation	Bifurcation
Euclidean distance	Nonlinear systems
Hilbert space	Chaos
Finite difference methods	Chaotic communication
Finite element analysis	Complexity theory
Fourier series	Spatiotemporal phenomena
Functional analysis	Nonlinear dynamical systems
Geometry	Numerical analysis
Computational geometry	Adaptive mesh refinement
Fractals	Approximation methods
Elliptic curves	Approximation error
Elliptic design	Chebyshev approximation
Ellipsoids	Curve fitting
Information geometry	Extrapolation
Surface topography	Function approximation
Nanotopography	Interpolation
Gradient methods	Least squares approximations
Graph theory	Linear approximation
Bipartite graph	Perturbation methods
Optimal matching	Convergence of numerical methods
Reachability analysis	Finite difference methods
Shortest path problem	Finite element analysis
Tree graphs	Finite volume methods
Harmonic analysis	Gradient methods
Iterative methods	Independent component analysis
Expectation-maximization algorithms	Iterative methods
Iterative algorithms	Expectation-maximization
Belief propagation	algorithms
Iterative closest point algorithm	lterative algorithms
Sum product algorithm	Method of moments
Kernel	Mode matching methods
Null space	Multigrid methods
Laplace equations	Newton method
Lattices	Numerical simulation
Lattice Boltzmann methods	Numerical stability
Limit-cycles	Relaxation methods
Linearization techniques	Sparse matrices
Linear matrix inequalities	Splines (mathematics)
Linear systems	Surface fitting
Mathematical model	Response surface methodology
Mathematical analysis	Symmetric matrices
Formal concept analysis	Transmission line matrix methods
Fractional calculus	Optimization
Modal analysis	Cost function
Mathematical programming	Optimal scheduling



Outionination weatherds	Coinala
Optimization methods	Spirals
Circuit optimization	Statistics
Design optimization	Adaptive estimation
Gradient methods	Autoregressive processes
H infinity control	Boltzmann distribution
Mathematical programming	Lattice Boltzmann methods
Optimized production technology	Correlation
Pareto optimization	Autocorrelation
Quadratic programming	Correlation coefficient
Simulated annealing	Covariance matrices
Piecewise linear techniques	Gaussian mixture model
Piecewise linear approximation	Higher order statistics
Predator prey systems	Histograms
Probability	Least squares methods
Ant colony optimization	Least mean squares methods
Bayes methods	Least squares approximations
Recursive estimation	Linear discriminant analysis
Error probability	Maximum likelihood estimation
Forecasting	Mean square error methods
Demand forecasting	Minimax techniques
Economic forecasting	Parametric statistics
Forecast uncertainty	Prediction theory
Technology forecasting	Ranking (statistics)
Memoryless systems	Root mean square
Pairwise error probability	Sampling methods
Possibility theory	Compressed sensing
Probability distribution	Nonuniform sampling
Exponential distribution	Statistical analysis
Log-normal distribution	Analysis of variance
Maxwell-Boltzmann distribution	Mode matching methods
Nakagami distribution	Monte Carlo methods
Random variables	Parameter estimation
Statistical distributions	Pareto analysis
Distribution functions	Principal component analysis
Gaussian distribution	Regression analysis
	Time series analysis
Uncertainty	Stochastic processes
Forecast uncertainty	Gaussian processes
Quaternions	Gaussian mixture model
Random processes	Markov processes
Brownian motion	Markov processes
Root mean square	Taylor series
Sequences	Taylor series Topology
Binary sequences	Transforms
	Discrete transforms
Random sequences	Discrete transforms
Set theory	
Fuzzy sets	Empirical mode decompositionFourier transforms
Fuzzy set theory	Discrete Fourier transforms
Rough sets	
Simulated annealing	Fast Fourier transforms
Smoothing methods	Karhunen-Loeve transforms



Poincare invariance	Nanotechnology
Wavelet transforms	Bionanotechnology
Biorthogonal modulation	Casimir effect
Continuous wavelet transforms	Molecular computing
Discrete wavelet transforms	Molecular electronics
Wavelet coefficients	Nanobioscience
Wavelet packets	DNA computing
Transmission line matrix methods	Nanobiotechnology
Uncertain systems	Nanoelectromechanical systems
Utility theory	Nanoelectronics
,	Nanofabrication
	Nanofluidics
Microwave theory and techniques	Nanolithography
Microwave technology	Nanomaterials
Beam steering	Nanopatterning
Circulators	Colloidal lithography
Masers	Nanophotonics
Gyrotrons	Nanopositioning
Microwave bands	Nanoscale devices
	Nanocontacts
K-band	Nanotube devices
L-band	Nanosensors
Microwave circuits	Nanostructured materials
Microwave circuits	
Rectennas	Nanocomposites
Microwave devices	Nanoporous materialsNanostructures
Masers	Nanoparticles
Microwave amplifiers	Nanocrystals
Microwave filters	Nanotubes
Microwave transistors	Carbon nanotubes
Microwave generation	Semiconductor nanotubes
High power microwave generation	Nanowires
Microwave photonics	Semiconductor nanostructures
Microwave sensors	Self-assembly
Millimeter wave technology	Electrostatic self-assembly
Millimeter wave circuits	Self-replicating machines
Millimeter wave integrated circuits	
Millimeter wave communication	
Millimeter wave devices	Nuclear and plasma sciences
Millimeter wave transistors	Biomedical applications of radiation
Millimeter wave integrated circuits	Colliding beam devices
MIMICs	Colliding beam accelerators
Millimeter wave radar	Muon colliders
Submillimeter wave technology	Electron emission
Submillimeter wave circuits	Ballistic transport
Submillimeter wave integrated	Electronic ballasts
circuits	Elementary particles
Submillimeter wave communication	Charge carriers
Submillimeter wave devices	Charge carrier density
Submillimeter wave filters	Charge carrier lifetime
Submillimeter wave integrated circuits	Charge carrier mobility



Charge carrier processesNuclear phase transformations	
Hot carriersNuclear thermodynamics	
ElectronsRelativistic effects	
Quantum wellsAccelerator magnets	
TrionsColliding beam accelerators	
Elementary particle exchangeCyclotrons	
interactionsElectron accelerators	
Elementary particle vacuumlon accelerators	
lonsLinear accelerators	
Photon collider	
lon sourcesPlasma accelerators	
Proton accelerators	
Storage rings	
Synchrocyclotrons	
Particle beamsSynchrotrons	
Synchrotron radiation	
Electron beamsUndulators	
Ion beamsParticle beam handling	
Particle collisionsParticle beam injection	
PhononsPlasmas	
PositronsAtmospheric-pressure plasmas	
ProtonsPlasma applications	
Fusion power generationPlasma devices	
Fusion reactorsPlasma immersion ion implan	tation
Fusion reactor design	tation
TokamaksTokamaks	
Tokamak devicesPlasma confinement	
Gamma-raysInertial confinement	
Gamma-ray burstsMagnetic confinement	
Gamma-ray detectionPlasma diagnostics	
Gamma-ray effectsPlasma properties	
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Gas discharge devicesDusty plasmas	
Glow discharge devicesPlasma chemistry	
High energy physics instrumentationPlasma density	
computingPlasma sheaths	
Linear particle acceleratorPlasma stability	
lon beam applicationsPlasma temperature	
lon implantationPlasmons	
Plasma immersion ion implantationPlasma simulation	
lon emissionPlasma sources	
Nuclear electronicsPlasma transport processes	
Nuclear imagingRadiation effects	
Biological effects of radiation	
Nuclear medicineGamma-ray effects	
Nuclear physicslon radiation effects	
Alpha particlesNeutron radiation effects	
Beta raysRadiation hardening (electronics)	
lgnitionRadiation monitoring	
lon sourcesRadiation dosage	
IsotopesRadiation safety	



De estado de estado estado e	Disconnection
Reactor instrumentation	Phase control
Scintillation counters	Power conditioning
Solid scintillation detectors	Power smoothing
Thermionic emission	Power semiconductor devices
	Power transistors
	Power semiconductor switches
Oceanic engineering and marine	Bipolar transistors
technology	Insulated gate bipolar transistors
Marine navigation	Kirk field collapse effect
Marine technology	Thyristors
Marine equipment	Photothyristors
Marine transportation	Snubbers
Marine vehicles	Three-phase electric power
Underwater cables	Three-phase electric power
Underwater cables	
	Dower engineering and energy
Underwater equipment	Power engineering and energy
Rebreathing equipment	Electric variables control
Underwater structures	Current control
Underwater technology	Electrical ballasts
Underwater communication	Electric current control
Underwater equipment	Gain control
Underwater structures	Power control
Oceanographic techniques	Power system control
Ocean temperature	Bidirectional power flow
Water pollution	Load flow control
Marine pollution	SCADA systems
	Reactive power control
	Voltage control
Power electronics	Automatic voltage control
Converters	Energy
AC-AC converters	Energy barrier
DC-AC power converters	Energy capture
Digital-to-frequency converters	Energy consumption
Frequency conversion	Energy conversion
Mixers	Batteries
Optical frequency conversion	Fuel cells
Power conversion	Motors
AC-AC converters	Photovoltaic cells
AC-DC power converters	Potential well
DC-AC power converters	Solar heating
DC-DC power converters	Thermoelectricity
Matrix converters	Waste heat
Power conversion harmonics	Energy dissipation
Pulse width modulation converters	Energy exchange
Static power converters	Inductive charging
Wavelength converters	Energy harvesting
Current limiters	Energy management
Fault current limiters	Energy management
Inverters	Energy efficiency
Pulse inverters	Load management
Resonant inverters	Energy resources
	Litergy resources



Hybrid power systems	Fuels	Power systems
		· ·
Solar energy Wave power Wind energy Wind energy Wind energy Wind farms Energy states Effective mass Orbital calculations Energy storage Batteries Batteries Fue cells Fuel cells Hydrogen storage Byerconducting magnetic energy Storage Power engineering Power engineering Power engineering computing Power engineering computing Power system simulation Power generation Automatic generation control Cogeneration Hydroelectric-thermal power generation Microhydro power Microhydro power Piciohydro power Magnetohydrodynamic power generation Nuclear power generation Muclear power generation Power generation control Power generation control Power generation control Power generation control Power generation Muclear power generation Power generation control Power generation dispatch Power generation dispatch Power generation Maximum power point trackers Photovoltaic systems Wind energy deat at the substance of the stribution lines Power guitrourids Power supplies Battery chargers Charging stations Power supplies Battery chargers Battery chargers Battery chargers Battery chargers Subatations Power supplies Inductive charging Inductive power supplies Inductive power system restoration Inductive power fenance Inductive power transmission Inductive power transmission Inductive power systems Inductive power systems Inductive power fenance Inductive power fenance Inductive power transmission Inductive power systems Inductive power systems Inductive power system stability Power transmission Inductive power fenance Inductive power fe		
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Substation automation	Vehicle crash testing
Substation protection	
Transformers	
Current transformers	Professional communication
Flyback transformers	Collaboration
Instrument transformers	Collaborative tools
Phase transformers	Call conference
Power transformers	Collaborative software
Pulse transformers	Videoconferences
Uninterruptible power systems	Discussion forums
Wind energy integration	Teamwork
	Virtual groups
	Communication aids
Product safety engineering	Communication effectiveness
Consumer protection	Communication symbols
Power system protection	Semiotics
Electrical safety	Pragmatics
Fault protection	Semantics
Grounding	Syntactics
Substation protection	Context
Surge protection	Databases
Arresters	Database systems
Safety	Audio databases
Aerospace safety	Deductive databases
Air safety	Image databases
Domestic safety	Indexes
Emergency services	Multimedia databases
Explosion protection	Object oriented databases
Hazards	Query processing
Biohazards	Deductive databases
Chemical hazards	Distributed databases
Explosions	Image databases
Fires	Image retrieval
Flammability	Multimedia databases
Floods	Object oriented databases
Hazardous areas	Relational databases
Hazardous materials	Spatial databases
Toxicology	Transaction databases
Health and safety	Itemsets
Occupational health	Visual databases
Occupational safety	Global communication
Marine safety	Cross-cultural communication
Product safety	Geographic information systems
Protection	Geospatial analysis
Explosion protection	Gunshot detection systems
Lightning protection	Grammar
Radiation safety	Information analysis
Safety devices	Indexing
Eye protection	Information resources
Protective clothing	Information retrieval
Vehicle safety	Blogs



Content-based retrieval	Information systems
Hypertext systems	Database systems
Information filtering	Audio databases
Information filters	Deductive databases
Recommender systems	Image databases
Information rates	Indexes
Music information retrieval	Multimedia databases
Online services	Object oriented databases
Search engines	Query processing
Search methods	Data systems
Keyword search	Data acquisition
Metasearch	Data compression
Nearest neighbor searches	Data conversion
Search problems	Data engineering
Web search	Data handling
Social network services	Data processing
Computer mediated communication	Data storage systems
Facebook	Data warehouses
LinkedIn	Distributed information systems
MySpace	Publish-subscribe
Second Life	Identity management systems
Twitter	Informatics
YouTube	Biomedical informatics
Tagging	Cognitive informatics
Tag clouds	Information architecture
Taxonomy	Information management
Terminology	Competitive intelligence
Dictionaries	Document handling
Video sharing	Information security
Facebook	Information sharing
MySpace	Knowledge transfer
YouTube	Information processing
Vocabulary	Informatics
Web sites	Information exchange
Facebook	Sonification
MySpace	Management information systems
Uniform resource locators	Portals
Web design	Medical information systems
YouTube	Electronic medical records
Information science	Information technology
Information services	Information representation
Ask IEEE	Printing
Dictionaries	Digital printing
Document delivery	Teleprinting
Ask IEEE	Service computing
Encyclopedias	Telematics
Libraries	Universal Serial Bus
Software libraries	Manuals
Teletext	Oral communication
Videotex	Public speaking
Wikipedia	Speech



Plagiarism	Stochastic resonance
Portfolios	
Professional societies	Robotics and automation
Public speaking	Animatronics
Rhetoric	Automation
Writing	Automated highways
Abstracts	Automatic generation control
Bibliographies	Automatic testing
Biographies	Automatic test pattern generation
Autobiographies	Ring generators
Dictionaries	Building automation
Documentation	Manufacturing automation
Grammar	Computer aided manufacturing
Readability metrics	Computer integrated manufacturing
Resumes	Computer numerical control
Reviews	Flexible manufacturing systems
Thesauri	Office automation
	Workflow management software
	Storage automation
Reliability	Multi-robot systems
Availability	Robots
Fault diagnosis	Androids
Dissolved gas analysis	Aquatic robots
Fault location	Automata
Fault tolerance	Turing machines
Redundancy	Cognitive robotics
Fluctuations	Cognitive robotics
Integrated circuit reliability	Active appearance model
Maintenance	Face detection
Maldistribution	Smart cameras
Materials reliability	Educational robots
Reliability engineering	Humanoid robots
Reliability theory	Intelligent robots
Robustness	Manipulators
Semiconductor device reliability	End effectors
Software reliability	Manipulator dynamics
Stability	Micromanipulators
Circuit stability	Medical robotics
Robust stability	Rehabilitation robotics
Stability analysis	Mobile robots
Stability criteria	Climbing robots
Thermal stability	Legged locomotion
Telecommunication network reliability	Orbital robotics
	Parallel robots
	Robot control
Resonance	Robot motion
Ferroresonance	Robot kinematics
Magnetic resonance	Motion analysis
Nuclear magnetic resonance	Robot programming
Paramagnetic resonance	Robot sensing systems
Resonance light scattering	Robot vision systems



Simultaneous localization and	Biological system modeling
mapping	Biological systems
Tactile sensors	Anatomy
Service robots	Molecular communication
Telerobotics	Organisms
Teleoperators	Biology computing
Tolooperators	Biophotonics
	Biophysics
Science - general	Aerospace biophysics
Astronomy	Biomagnetics
Astrophysics	Cellular biophysics
Observatories	Molecular biophysics
Orbits (stellar)	Evolution (biology)
Planets	Memetics
Earth	Phylogeny
Extrasolar planets	Genetics
Jupiter	DNA
Mars	Gene therapy
Mercury (planets)	Genetic communication
Pluto	Genetic expression
Saturn	Genetic programming
Sun	Genomics
Venus	Microinjection
Radio astronomy	Nanobioscience
Solar system	DNA computing
Kuiper belt	Nanobiotechnology
Stellar dynamics	Physiology
Stellar motion	
	Predator prey systems
Biology	Synthetic biology
Biochemistry	Systematics
Amino acids	Systems biology
Biochemical analysis	Vegetation
Peptides	Crops
Proteins	Marine vegetation
Biodiversity	Zoology
Biogeography	Animals
Bioelectric phenomena	Chemistry
Electric shock	Astrochemistry
Biological cells	Biochemistry
Cells (biology)	Amino acids
Chromosome mapping	Biochemical analysis
Fibroblasts	Peptides
RNA	Proteins
Stem cells	Chemical analysis
Biological information theory	Activation analysis
Biological information theory	Chemical processes
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Biological interactions	Chemicals
Chronobiology	Electronic noses
Circadian rhythm	pH measurement
Coagulation	Chemical compounds
Symbiosis	Anti-freeze



Ethanol	EMTDC
Methanol	Extraterrestrial phenomena
Inorganic chemicals	Geodynamics
Interstellar chemistry	Geophysics computing
Organic chemicals	Meteorology
Hydrocarbons	Moisture
Photochemistry	Seismology
Photobleaching	Surface waves
Electricity	Well logging
Photoelectricity	lce
Photovoltaic effects	lce shelf
Piezoelectricity	lce surface
Piezoelectric effect	lce thickness
	Sea ice
Piezoelectric polarization	Lakes
Pyroelectricity	
Thermoelectricity	Land surface
Electrothermal effects	Levee
Thermoelectric devices	Meteorological factors
Triboelectricity	Oceans
Geoscience	Ocean salinity
Antarctica	Ocean temperature
South Pole	Sea coast
Arctic	Sea floor
North Pole	Sea level
Atmosphere	Sea surface
Atmospheric modeling	Tides
Atmospheric waves	Rivers
Biosphere	Sediments
Continents	Soil
Africa	Soil moisture
Asia	Soil properties
Australia	Soil texture
Europe	Tornadoes
North America	Tsunami
South America	Volcanoes
Cyclones	Planetary volcanoes
Hurricanes	Volcanic activity
Tropical cyclones	Volcanic ash
Earth	Metrology
Earthquakes	Physics
Earthquake engineering	Ácoustics
Forestry	Acoustic applications
Geoengineering	Acoustic devices
Geography	Acoustic emission
Cities and towns	Acoustic noise
Rural areas	Acoustic propagation
Urban areas	Acoustic pulses
Geology	Acoustic waves
Minerals	Acoustooptic effects
Rocks	Biomedical acoustics
Geophysics	Cepstral analysis
Ocopitysios	Oopsiidi diidiysis



Music	Hydrodynamics
Nonlinear acoustics	Kinematics
Psychoacoustics	Lubrication
Reverberation	Magnetohydrodynamics
Spectral shape	Photoelasticity
Underwater acoustics	Protoelasticity
Astrophysics	Shock (mechanics)
Beams	Strain
Acoustic beams	Stress
Laser beams	Surface cracks
Molecular beams	Torque
Optical beams	Vibrations
Particle beams	Volume relaxation
Biophysics	Workability
Aerospace biophysics	Network theory (graphs)
Biomagnetics	Orbits
Cellular biophysics	Physics education
Molecular biophysics	Quantum mechanics
Dark energy	Density functional theory
Entropy	Lagrangian functions
Fluid flow	Proton effects
Fluid dynamics	Quantum capacitance
Hydraulic diameter	Quantum entanglement
Hydrology	Relativistic quantum mechanics
Pipelines	Schrodinger equation
Valves	Stationary state
Geophysics	Teleportation
EMTDC	Tunneling
Extraterrestrial phenomena	String theory
Geodynamics	Thermal factors
Geophysics computing	Temperature
Meteorology	Temperature dependence
Moisture	Thermal conductivity
Seismology	Thermal expansion
Surface waves	Thermal management
Well logging	Thermal stresses
Kinetic theory	Thermoelasticity
Kinetic energy	Thermoelectricity
Levitation	Thermolysis
Electrostatic levitation	Thermooptic effects
Magnetic levitation	Thermoresistivity
Lorentz covariance	Waves
Mechanical factors	Atmospheric waves
Acceleration	Berry phase
AccelerationAerodynamics	Doppler effect
Biomechanics	
	Electrodynamics
Damping	Magnetostatic waves
Dynamics	Matter waves
Fatigue	Plasma waves
Force	Propagation
Friction	Reflectivity



Seismic waves	Leak detection
Shock waves	Radiofrequency identification
Solitons	RFID tags
Surface acoustic waves	Robot sensing systems
Wave functions	Robot vision systems
Sociology	Simultaneous localization and
Digital divide	mapping
Thermodynamics	Tactile sensors
lsobaric	Sensor arrays
Isothermal processes	Sensor fusion
	Sensor systems
	Gunshot detection systems
Sensors	Thermal sensors
Acoustic sensors	
	Temperature sensorsThick film sensors
Chemical and biological sensors	
Biosensors	Thin film sensors
Gas detectors	Wearable sensors
Amperometric sensors	
Electromechanical sensors	
Microsensors	Signal processing
Force sensors	Acoustic signal processing
Infrared sensors	Active noise reduction
Intelligent sensors	Echo cancellers
Intracranial pressure sensors	Speech processing
Ionizing radiation sensors	Human voice
Position sensitive particle detectors	Speech enhancement
Radiation detectors	Speech synthesis
Bolometers	Adaptive signal processing
Gamma-ray detectors	Adaptive filters
Infrared detectors	Adaptive signal detection
Photodetectors	Amplifiers
Semiconductor radiation detectors	Broadband amplifiers
Silicon radiation detectors	Cavity resonators
X-ray detectors	Laser cavity resonators
Magnetic sensors	Differential amplifiers
Spin valves	Distributed amplifiers
Mechanical sensors	Low-noise amplifiers
Capacitive sensors	Operational amplifiers
Multimodal sensors	Feedback amplifier
Nanosensors	Power amplifiers
Optical sensors	High power amplifiers
Optical detectors	Predistortion
Bar codes	Preamplifiers
Optical fiber sensors	Pulse amplifiers
Optoelectronic and photonic sensors	Radiofrequency amplifiers
Sensor phenomena and characterization	Array signal processing
Sensor systems and applications	Attenuators
Detectors	Optical attenuators
Envelope detectors	Chirp
Semiconductor detectors	Convolution
	Convolution
Electric sensing devices	



Decemblation	Company and setting filters
Decorrelation	Superconducting filters
Digital signal processing	Transversal filters
Delta modulation	Frequency locked loops
Delta-sigma modulation	Geophysical signal processing
Sigma-delta modulation	Limiting
Digital signal processing chips	Modulation
Dispersion	Amplitude modulation
Chromatic dispersion	Amplitude shift keying
Optical fiber dispersion	Quadrature amplitude modulation
Distortion	Chirp modulation
Acoustic distortion	Demodulation
Four-wave mixing	Digital modulation
Jitter	Constellation diagram
Timing jitter	Partial response signaling
Nonlinear distortion	Frequency modulation
Harmonic distortion	Frequency shift keying
Intermodulation distortion	Magnetic modulators
Phase distortion	Modulation coding
Error correction	Interleaved codes
Forward error correction	Optical modulation
Fading	Electrooptic modulators
Frequency-selective fading channels	Intensity modulation
Rayleigh channels	Phase modulation
Weibull fading channels	Continuous phase modulation
Filters	Differential phase shift keying
Active filters	Phase shift keying
Band-pass filters	Pulse modulation
Anisotropic	Pulse width modulation
Bragg gratings	Pulse width modulation inverters
Fiber gratings	Space vector pulse width
Channel bank filters	modulation
Digital filters	Multidimensional signal processing
Finite impulse response filters	Video signal processing
Equalizers	Video coding
Adaptive equalizers	Video compression
Blind equalizers	Noise
Decision feedback equalizers	1f noise
Filtering theory	Additive noise
Gabor filters	Additive white noise
Harmonic filters	AWGN
IIR filters	Colored noise
Kalman filters	Gaussian noise
Low-pass filters	AWGN
Matched filters	Laser noise
Microstrip filters	Laser feedback
Nonlinear filters	Low-frequency noise
Particle filters	Noise cancellation
Power filters	Phase noise
Spurline	Signal to noise ratio
Resonator filters	PSNR
Spatial filters	Superconducting device noise



AWGN Author as feedback Laser noise Laser feedback Desar feedback Phase detection Phase detection Phase detection Phase frequency detector Radar detection Desar feedback Radar detection Noise generators Noise generators Noise generation Optical pulse shaping Optical pulse shaping Dista pulse generation Signal denoising Signal reconstruction Signal sampling Signal sampling Signal sampling Signal sampling Signal mapping Diversity reception Signal processing Signal descing Author recording Signal reconstruction Signal reconstruction Signal reconstruction Signal reconstruction Signal reconstruction Signal reconstruction Signal recording Signal recording Signal recording Signal recording Signal processing Source separation Signal re	NA/1-16	M.C. L.C.
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Magnetocoptic recordingMicrowave-assisted magnetic recordingPerpendicular magnetic recordingOptical recordingCD recordingVideo recordingWebcamsWebcams		·
Magnetooptic recording	•	Tracking loops
Microwave-assisted magnetic recordingPerpendicular magnetic recordingCultural differencesBiosphereBiosphereBiosphere		
recordingPerpendicular magnetic recordingEnvironmental factorsBiosphereBiosphere		
Perpendicular magnetic recordingOptical recordingCD recordingCD recordingVideo recordingWebcamsWebcams	Microwave-assisted magnetic	
Optical recordingBiosphereCD recordingEcosystemsVideo recordingEnvironmental economicsHigh definition videoCarbon tax	recording	Cultural differences
	Perpendicular magnetic recording	Environmental factors
Video recordingEnvironmental economicsHigh definition videoCarbon taxWebcamsEnvironmental monitoringEnvironmental monitoring	Optical recording	Biosphere
High definition videoCarbon taxWebcamsEnvironmental monitoringRF signalsGlobal warmingSignal analysisGreen productsDiscrete-event systemsGreen buildingsHarmonic analysisGreen cleaningParameter estimationPollutionAmplitude estimationAir pollutionDirection-of-arrival estimationLand pollutionFrequency estimationLand pollutionMotion estimationDil pollutionPhase estimationCil pollutionTime of arrival estimationThermal pollutionTime of arrival estimationThermal pollutionSignal mappingUrban pollutionSpectral analysisWater pollutionInfrared spectraEthical aspectsJudd-Ofelt theoryGlobalizationSpectroradiometersInternational relationsSignal designPeace technologySignal detectionPhilosophical considerations	CD recording	Ecosystems
High definition videoCarbon taxWebcamsEnvironmental monitoringRF signalsGlobal warmingSignal analysisGreen productsDiscrete-event systemsGreen buildingsHarmonic analysisGreen cleaningParameter estimationPollutionAmplitude estimationAir pollutionDirection-of-arrival estimationLand pollutionFrequency estimationLand pollutionMotion estimationDil pollutionPhase estimationCil pollutionTime of arrival estimationThermal pollutionTime of arrival estimationThermal pollutionSignal mappingUrban pollutionSpectral analysisWater pollutionInfrared spectraEthical aspectsJudd-Ofelt theoryGlobalizationSpectroradiometersInternational relationsSignal designPeace technologySignal detectionPhilosophical considerations	Video recording	Environmental economics
WebcamsEnvironmental monitoring RF signalsGlobal warming Signal analysisGreen products Discrete-event systemsGreen buildings		Carbon tax
RF signalsGlobal warmingSignal analysisGreen productsGreen buildingsGreen buildingsGreen cleaningGreen buildingsGreen buildings		Environmental monitoring
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Discrete-event systemsGreen buildingsGreen cleaningGreen cleaningParameter estimationPollutionAir pollutionAir pollution		<u> </u>
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Amplitude estimationAir pollutionAir pollution	•	
Direction-of-arrival estimationIndustrial pollutionLand pollution		
Frequency estimation	•	
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Signal designPeace technologyPhilosophical considerations		
Signal detectionPhilosophical considerations		
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A 1: '		
	Acoustic signal detection	Social factors
Sonar detectionDemography	Sonar detection	Demography



Technology social factors	Superconductivity
Privacy	Bean model
Sustainable development	Critical current density
Technology	(superconductivity)
Appropriate technology	Critical current density
Technological innovation	Flux pinning
Technology social factors	Superconducting devices
Privacy	Josephson junctions
Technology transfer	SQUIDs
Small business technology transfer	Superconducting coils
The state of the s	Superconducting magnets
	Superconducting microwave devices
Solid state circuits	Superconducting photodetectors
Circuit subsystems	Superconducting filaments and wires
Circuit theory	Superconducting films
FET circuits	Superconducting thin films
FET integrated circuits	Superconducting thir hims
FET integrated circuits	Superconducting integrated circuitsSuperconducting magnetic energy
MESFET integrated circuits	storage
JFET circuits	Superconducting materials
MESFET integrated circuits	Granular superconductors
	High-temperature superconductors
MESFET integrated circuits	Yttrium barium copper oxide
MODFET circuits	Multifilamentary superconductors
MODFET integrated circuits	Niobium-tin
MOSFET circuitsCMOSFET circuits	Type II superconductors
	Superconducting transition temperature
MOS integrated circuitsPower MOSFET	Systems engineering and theory
	Adaptive systems
Gate leakage	Adaptive controlLine enhancers
Solid state circuit designTransistors	
	Multi-agent systems
Field effect transistors	Variable structure systems
	Hierarchical systems
Double-gate FETs	Multilevel systems
HEMTs JFETs	Modeling
	Analytical models
MESFETs	Atmospheric modeling
MISFETs	Brain modeling
MODFETs	Computational modeling
MOSFET	Computational cultural modeling
MOSHFETs	Context modeling
OFETs	Data modelsDeformable models
Schottky gate field effect transistorsThin film transistors	
	Digital elevation models
Heterojunction bipolar transistors	Emulation
Double heterojunction bipolar	Graphical models
transistors Millimeter wave transistors	Green's function methods
Millimeter wave transistors	Hidden Markov models
Phototransistors	Input variables
	Integrated circuit modeling



Cutoff frequencyInverse problems	Time-varying systemsSystems engineering education
Deconvolution	and year and an indicate and a second
Load modeling	
Metamodeling	Systems, man, and cybernetics
Numerical models	Behavioral science
Object oriented modeling	Animal behavior
Power system modeling	Cognition
Load modeling	Consumer behavior
Semiconductor device modeling	Psychiatry
Semiconductor process modeling	Mental disorders
Signal representation	Psychology
Simulation	Industrial psychology
Computer simulation	Mood
Digital simulation	Psychometric testing
Medical simulation	Biological control systems
Solid modeling	Biomarkers
System identification	Molecular biomarkers
Multidimensional systems	Computational linguistics
Reduced order systems	Sentiment analysis
Stochastic systems	Cybernetics
System analysis and design	Adaptive systems
Asymptotic stability	Adaptive control
Control system analysis	Line enhancers
State-space methods	Multi-agent systems
Diakoptics	Variable structure systems
Distributed processing	Cognitive informatics
Message passing	Cognitive science
Distributed vision networks	Problem-solving
Fault detection	Control theory
Fault tolerant systems	Control nonlinearities
Interconnected systems	Observability
Large-scale systems	Decision theory
Lyapunov methods	Decision trees
Open systems	Econophysics
Open Access	Emergent phenomena
Physical layer	Intelligent control
Petri nets	Feedforward systems
Robust control	Neurocontrollers
Scalability	Linear feedback control systems
Scattering parameters	Frequency locked loops
Sequential analysis	Phase locked loops
Sequential diagnosis	State feedback
Software prototyping	Tracking loops
System-level design	Ergonomics
System performance	Job design
Cooperative caching	Human factors
Time factors	Affective computing
Continuous time systems	Anthropomorphism
Discrete-time systems	Identification of persons
Time invariant systems	Biometrics (access control)



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Gait recognition	Piezoelectricity
Iris recognition	Piezoelectric effect
Face recognition	Piezoelectric polarization
Fingerprint recognition	Pyroelectricity
Handwriting recognition	Ultrasonic imaging
Forgery	Ultrasonography
Speaker recognition	Sonogram
Speech recognition	Ultrasonic transducers
Automatic speech recognition	
Speech analysis	
Man machine systems	Vehicular and wireless technologies
Interactive systems	Automotive engineering
Natural languages	Automotive applications
Natural language processing	Automotive electronics
Morphology	Power steering
Sentiment analysis	Vehicle crash testing
Pervasive computing	Vehicle detection
Ubiquitous computing	Vehicle driving
Context-aware services	Vehicle dynamics
Wearable computers	Vehicle safety
Posthuman	Land mobile radio equipment
Teleworking	Mobile antennas
Transhuman	Navigation
User interfaces	Aircraft navigation
Audio user interfaces	Course correction
Brain-computer interfaces	Dead reckoning
Data visualization	Inertial navigation
Isosurfaces	Marine navigation
Emotion recognition	Radio navigation
Exoskeletons	Satellite navigation systems
Graphical user interfaces	Global Positioning System
Avatars	Satellite constellations
Human computer interaction	Sonar navigation
Human-robot interaction	Propulsion
Smart cards	Aircraft propulsion
Smart dardo	Propellers
	Electromagnetic launching
Ultrasonics, ferroelectrics, and	Coilguns
frequency control	Railguns
Ferroelectric materials	Electrothermal launching
Ferroelectric films	Rockets
Relaxor ferroelectrics	Vehicles
Frequency control	Land vehicles
Automatic frequency control	Bicycles
Tunable circuits and devices	Electric vehicles
RLC circuits	Road vehicles
Tuned circuits	
Tuning	Remotely operated vehiclesUnmanned aerial vehicles
Laser tuning	Space vehicles
Optical tuning	Space shuttles
Tuners	Wireless sensor networks



.....Body sensor networksEvent detection