

IFAC KEYWORD LIST OF CONTROL TERMINOLOGY

A

Absolute
error criterion
measurement
stability
AC
conductivity
converter machines
losses wires
machines
tacho generators
Accelerometers
Access times
Accuracy
Active
brake control
compensation
control
elements
filters
narrow band suspension
noise control
vehicle suspension
Actuating signals
Actuators
Ada tasking programs
Adaptation
Adaptive
algorithms
arrays
control
correlation
digital filters
equalization
equalizers
filters
systems
A/D converters
Add-subtract time
Addres
Address
registers
spaces
Addressable location
addressing
Addresses
Adjacency
Adjustment
Admittance
Aerospace
computer control
control
engineering
trajectories
Affine
Agents
Agile
control
manufacturing
Agriculture
Air
pollution
traffic control
Aircraft
control
operations
Alarm systems
Algebraic
approaches
Riccati equations
selection
systems theory
Algorithmic languages
Algorithms
All pass
elements
filters
Alternating magnetic fields
Ambient noise
Amplidyne
Amplification
Amplifiers
Amplifier systems
Amplifying elements
Amplitude
distortion
locus

modulation
response
Analog
computer control
computers
control
multipliers
signals/digital converters
Analysis of variance
Analytic approximations
AND
elements
operations
Angular
acceleration
deviation
frequency
momentum
position
velocity
Antennas
Antilock braking systems
Antiskid
control
devices
Anti-spin regulation
Anti-wheelspin control
Applied neural control
Approximate analysis
Arc resistance
Architectures
Arithmetic
algorithms
and logic units
Arm
movements
singularities
ARMA
models
parameter estimation
Armatures
Array
filters
processors
Artificial intelligence
Assemblers
Assembly
language
robots
Astatic control
Asymptotic
analysis
approximation
properties
stability
Asynchronous sequential
logic
Attenuation
correction
observations
Attenuators
Attitude
algorithms
control
gyros
Attractors
Authentication
Auto correlation
functions
Automata
theory
Automated guided vehicles
Automatic
control
(closed-loop)
engineering
(open-loop)
systems
controllers
frequency control
gain control
operation
people models
process control
(closed-loop)
(open-loop)
recognition
regulators

restart
sequence control
testing
Automation
Automobile industry
Automobiles
Automorphism
Automotive
control
emissions
Autonomous
control
mobile robots
vehicles
Autoregressive models
Autotransducers
Autotuners
Availability
Available time
Average values
Averaging control

B

Backlash
Backpropagation
algorithms
Backtracking
Back-up
controllers
systems
Bad data
identification
Bandpass filters
Bandwidth
allocation
voice networks
coaxial probes
electrical pulses
measurements
minimization problems
Bang-bang control
Bank switching
Banyan networks
Batch
control
modes
Baud rates
Bearings only tracking
Behaviour
Behavioural science
Benchmark examples
Bessel functions
Bias
winding
Bilinear
control
systems
transformations
Binary
arrays
coded decimal
codes
control
decision systems
elements
images
logic systems
search trees
signals
storage elements
tree architectures
trees
Binding
Bio control
Biocybernetics
Biomedical
control
systems
Bionics
Biotechnology
Bispectrum
estimation
Bistability
devices
Bistable multivibrators
Bistable trigger elements

Blackboard architectures
Block diagrams
Blow moulding
Bode diagrams
Boilers
Bolometers
Bond graphs
Boolean
algebra
functions
logic
operations
Boundary
conditions
detection
element method
integral formulation
value problem
Bounded
disturbances
noise
Bounding method
Brain models
Brakes
Branches
Breadth-first searches
Breakpoints
Bridges
Brownian motion
Brushless motors
Bubbles
Buffer
amplifiers
storage
Bugs
Business process
engineering
Bus multiprocess or systems
Butterworth
filter
Bypass clutch control

C

Cables
Cableway systems
Cache
coherence protocols
memories
Caches
CAD/CAM
models
Calculators
Calculus
Calibration
CAM
Cameras
Cancellation
Capacitance
Capacitive compensation
Capacitively loaded
junctions
Capacitor filters
Capacitors
Capacity
Cartesian
manipulators
products
Cascade
compensation
control
exciters
CASE
Catastrophe
theory
Categorical data
Cathode
follower
ray tubes
CD ROM
Cellular
automation
logic
neural networks
Central
processing units
processors
Centralised control
Centre of mass
Centrifugal governors
Certainty
Chaos
theory
Chaotic behaviour
Character recognition
Characteristic
curves
equation
impedance
polynomials
roots
time
vector
Characters
Charge amplifiers
Chassis
control
dynamometers
Chattering
Cheap control
Checkpointing
Checkpoints
Checksums
Check valves
Chemical
industry
microsensors
sensors
variables control
Cholesky factorization
Chopper amplifiers
Circuit
models
performance
simulation
switched networks
Circuits
Classification
Classifiers
Clocking
Clocks
Clock synchronization
Closed-loop
control
controllers
gain
identification
phase angles
systems
transfer functions
Closed loops
Closed queuing networks
CMAC
CNC
Coarse-fine
control
relays
switches
Code
converters
Coded modulation
Coders
Coding schemes
Coefficient of stability
perturbation
Cognitive
science
systems
Coils
Coloured noise
Combinational
circuits
networks
Combinatorial
circuits
mathematics
switching
Command
and control systems
control
signals
variables
Communication
channels
control applications

<i>environments</i>	<i>systems</i>	<i>devices</i>	<i>gains</i>	<i>analysis</i>
<i>networks</i>	Condition numbers	<i>systems</i>	<i>losses</i>	<i>circuits</i>
<i>protocols</i>	Conditional	<i>variables</i>	<i>regulators</i>	<i>compensation</i>
<i>systems</i>	<i>probability</i>	Controller	<i>transformers</i>	<i>demodulation</i>
Communications	<i>stability</i>	<i>modulators</i>	<i>voltage characteristics</i>	<i>elements</i>
<i>systems</i>	Conductivity	<i>vehicles</i>	Cursors	<i>estimation</i>
Compact spectra	Conductors	Controllers	Curves	<i>lines</i>
Companion matrices	Configuration	Controlling	Cut-off	<i>spread</i>
Comparators	<i>control</i>	<i>elements</i>	<i>frequencies</i>	<i>modulation</i>
Comparing elements	<i>management</i>	<i>machines</i>	<i>rates</i>	Delivery systems
Compatibility	<i>space</i>	<i>power stations</i>	Cybernetics	Demodulators
Compensating	<i>stability</i>	Conventional control	Cycle length	Density measurements
<i>elements</i>	Conformal mapping	Convergence		Derivative
<i>feedback</i>	<i>techniques</i>	<i>analysis</i>		<i>action</i>
<i>feedforward</i>	Conjugate	<i>factors</i>	D	<i>elements</i>
<i>winding</i>	<i>gradient method</i>	<i>of numerical methods</i>	D/A converters	Describing functions
Compensation	<i>points</i>	<i>proofs</i>	Damage	Descriptor systems
Compensators	<i>roots</i>	Convergent	Dampers	Densitization
Compiler optimizations	Conjunction	<i>control</i>	Damping	Design
Compilers	Connected parallel	<i>series</i>	<i>coefficients</i>	<i>systems</i>
Complementarity problems	<i>computers</i>	Conversion	<i>constants</i>	<i>VLSI</i>
Complementary	Connectionism	Converters	<i>factors</i>	Detecting elements
<i>code</i>	Connections	Convex	<i>ratios</i>	Detection
<i>feedback</i>	Connective	<i>optimisation</i>	Dashpots	<i>algorithms</i>
<i>formulations</i>	<i>instability</i>	<i>programming</i>	Data	<i>systems</i>
<i>functions</i>	<i>stability</i>	<i>projections</i>	<i>acquisition</i>	Detector
Complements	Connectivity	Convolution	<i>compression</i>	<i>performance</i>
Complete controllability	Consistency	<i>integral</i>	<i>compression algorithms</i>	<i>saturation</i>
Complex	Consoles	Co-operation	<i>flow analysis</i>	Detectors
<i>perturbation</i>	Constant of inertia	Co-operative control	<i>flow diagrams</i>	Determinism
<i>planes</i>	Constrained	Co-ordinate	<i>flows</i>	Deterministic
<i>systems</i>	<i>parameters</i>	<i>time</i>	<i>fusion</i>	<i>behaviour</i>
<i>variables</i>	<i>poles</i>	<i>transformations</i>	<i>handling systems</i>	<i>systems</i>
Components	Constraints	Co-ordinates	<i>hold</i>	Device
Compound	Constraint satisfaction	Co-ordination	<i>loggers</i>	<i>degradation</i>
<i>actions</i>	<i>problems</i>	Co-ordinator	<i>logging</i>	<i>simulation</i>
<i>controllers</i>	Contact resistance	Coprime factorization	<i>models</i>	<i>simulators</i>
<i>semiconductors</i>	Continued fraction	Coprocessor	<i>privacy</i>	Developing countries
Compounding	<i>expansions</i>	Copy	<i>processing</i>	Diagnostics
<i>feedback</i>	Continuity	Copyright	<i>processors</i>	Diagnostic
<i>feedforward</i>	Continuous	Corner frequencies	<i>recorders</i>	<i>inference</i>
Compressors	<i>action</i>	Corona discharges	<i>reduction</i>	<i>programs</i>
Computational methods	<i>controllers</i>	Coronas	<i>replication</i>	<i>tests</i>
Computed torque control	<i>control</i>	Corporate strategies	<i>sets</i>	Diagonal dominance
Computer	<i>path control</i>	Correcting	<i>storage</i>	Diagrams
<i>-aided</i>	<i>phase modulation</i>	<i>conditions</i>	<i>streams</i>	Dialogue
<i>circuit design</i>	<i>speech recognition</i>	<i>feedback</i>	<i>symbols</i>	Diaphragm
<i>control system design</i>	<i>systems</i>	<i>feedforward</i>	<i>transmission</i>	<i>actuators</i>
<i>design</i>	<i>time filters</i>	<i>ranges</i>	Database	<i>valves</i>
<i>diagnosis</i>	<i>time systems</i>	<i>variables</i>	<i>management systems</i>	Diaphragms
<i>engineering</i>	<i>variables</i>	Correction times	<i>structures</i>	Diesel engines
<i>instruction</i>	Continuously variable	Corrective actions	<i>systems</i>	Difference
<i>manufacturing</i>	<i>transmission</i>	Correlation coefficients	Databases	<i>amplifiers</i>
<i>system design</i>	Control	Cosine transforms	Dead band	<i>analysis</i>
<i>testing</i>	<i>accuracy</i>	Coulomb	Dead-beat control	<i>equations</i>
<i>work</i>	<i>actions</i>	<i>damping</i>	Deadlines	Differential
<i>applications</i>	<i>algorithms</i>	<i>friction</i>	Deadlock	<i>analyzers</i>
<i>architectures</i>	<i>applications</i>	Counters	Dead zones	<i>detection</i>
<i>communication networks</i>	<i>circuits</i>	Coupled devices	Debugging	<i>equations</i>
<i>control</i>	<i>(closed-loop)</i>	<i>mode analysis</i>	Decay	<i>field rotors</i>
<i>controlled systems</i>	<i>education</i>	<i>mode theory</i>	Decentralized	<i>gain</i>
<i>experiments</i>	<i>engineering</i>	Coupling	<i>control</i>	<i>games</i>
<i>graphics</i>	<i>applications of computers</i>	<i>coefficients</i>	<i>systems</i>	<i>gaps</i>
<i>hardware</i>	<i>equations</i>	<i>functions</i>	Decision	<i>gears</i>
<i>-integrated</i>	<i>equipment</i>	<i>losses</i>	<i>block decoders</i>	<i>geometric methods</i>
<i>enterprises</i>	<i>errors</i>	<i>models</i>	<i>circuits</i>	<i>geometry</i>
<i>manufacturing</i>	<i>functions</i>	Covariance	<i>feedback</i>	<i>relays</i>
<i>interfaces</i>	<i>instants</i>	<i>matrices</i>	<i>equalization</i>	<i>transformers</i>
<i>networks</i>	<i>laws</i>	Criterion functions	<i>fusion</i>	Differentiating
<i>programming</i>	<i>loops</i>	Critical	<i>making</i>	<i>actions</i>
<i>programs</i>	<i>nonlinearities</i>	<i>areas</i>	<i>support systems</i>	<i>elements</i>
<i>recreations</i>	<i>(open-loop)</i>	<i>current density</i>	<i>tables</i>	Differentiators
<i>simulation</i>	<i>oriented models</i>	<i>damping</i>	<i>theory</i>	Digital
<i>software</i>	<i>panels</i>	<i>path analysis</i>	<i>trees</i>	<i>circuits</i>
<i>subroutines</i>	<i>points</i>	<i>points</i>	Decoders	<i>communications</i>
<i>systems</i>	<i>precision</i>	<i>state models</i>	Decomposable searching	<i>computer applications</i>
<i>tomography</i>	<i>ranges</i>	Cross correlation	<i>problems</i>	<i>computers</i>
<i>vision</i>	<i>schemes</i>	<i>functions</i>	Decomposition	<i>control</i>
Computers	<i>stations</i>	Crossover frequency	<i>methods</i>	<i>conversion techniques</i>
Computing	<i>system</i>	Cross-phase modulation	<i>theorems</i>	<i>converters</i>
<i>elements</i>	<i>analysis</i>	Crosstalk	Deconvolution	<i>differential analysers</i>
<i>linkages</i>	<i>design</i>	<i>interference</i>	Decoupled subsystems	<i>filter processors</i>
<i>systems</i>	<i>synthesis</i>	Cruise control	Decoupling	<i>filter structures</i>
Concentrators	<i>systems</i>	Cryogenic temperatures	<i>precompensators</i>	<i>filters</i>
Conceptual representations	<i>technology</i>	Cultural aspects of	<i>problems</i>	<i>images</i>
Concurrency	<i>theory</i>	<i>automation</i>	<i>zeros</i>	<i>mobile radios</i>
<i>control</i>	<i>units</i>	Current	Decrepitation	<i>patterns</i>
Concurrent	<i>valves</i>	<i>amplifiers</i>	Definite corrective action	<i>radios</i>
<i>architectures</i>	<i>windings</i>	<i>comparators</i>	Degenerative feedback	<i>signal processors</i>
<i>engineering</i>	Controllability	<i>decay</i>	Delay	<i>signals</i>
<i>programs</i>	Controlled	<i>densities</i>		<i>simulation</i>
<i>searches</i>	<i>conditions</i>	<i>distributions</i>		<i>systems</i>

VTR	behaviour	impedance	Evaluation	Financial systems
Digitisers	models	machines	Events	Finite
Diluted magnetic	Drivers	networks	Excitation	arc segments
semiconductors	Drives	properties	control	automata
Dimensional	Driving voltage	pulses	windings	difference
systems	Drum memory	shocks	Execution times	method
transfer functions	Dry friction	stimulation	Exhaust gas recirculation	solutions
Dirac functions	Dual composition control	Electro-hydraulic systems	Expanded memory	differences
Direct	Dual-computer systems	Electrodes	Expert systems	element
digital control	Dual-mode control	Electromagnetic	Exponential lag	analysis
-drive robots	Duality	devices	Exponentiality	computation
dynamic problem	Duplex control	field problems	Exponentially stable	field simulation
Fourier reconstruction	Duty	fields	Extended Kalman filters	method
frequency modulation	cycles	induction	Extended networks	solutions
kinematic problem	factors	modes	Extrusion	elements
overwrite	Dynamic	pulses		fields
Directed graphs	behaviour	scattering		state machines
Discontinuities	bias control	problems	F	First-order systems
Discontinuous	channel assignment	signals	Factorization	Fixed command control
action	decoupling	transducers	methods	Flapper valves
control	degradation	transients	Factory automation	Flexible
Discrete	modelling	transmission	Failure	arms
cosine transform	models	waves	detection	automation
digital dynamic control	output feedback	Electronic	isolation	manufacturing systems
-event dynamic systems	programming	applications	Farming	Flicker
-event systems	properties	control units (ECU)	Fast	Flight control
Fourier transforms	range	mail	Fourier transforms	Flip-flops
measurements	stability	systems	Kalman algorithms	Floating
systems	systems	Electronically-controlled	parallel algorithms	action
time	tests	transmissions	timing methods	control
time detection	Dynamics	Electronics	Fatigue	Floppy disks
-time systems	Dynamometers	Element analysis	Fault	Flow
Discretization		Embedded systems	detection	control
Discriminant analysis		Encoders	diagnosis	diagrams
Discrimination	Ecology	Encoding	distributions	heterogeneity
Discriminators	Economic	End point control	identification	measurement
Disk memory	design	End users	isolation	Flowcharts
Disks	systems	Energy	location	Fluctuations
Displacement	Economics	control	tolerance	Flux
cascades	Eddy	dependence	-tolerant software	density
transducers	current	distribution	-tolerant systems	space vectors
Displays	analysis	expenditure	Feedback	Follow-up control
Distance	problems	management systems	amplifiers	Food processing
transformations	techniques	spectra	capacity	Force
velocity lag	currents	storage	channel	balance
Distillation columns	Education	weighted acquisition	control	control
Distributed	Education	Engine	methods	Forced oscillation
amplifiers	Educational aids	control	elements	Forecasts
artificial intelligence	Effect device power	dynamometer	lasers	Formal
computer control systems	Effect devices	efficiency	linearization	languages
control	Effect transistor structures	management	loops	methods
databases	Effective	modelling	signals	specification
detection	bandwidth	systems	stabilization	verification
feedback	channel length	Enhancement	systems	Formats
models	cut-off wavelength	Enterprise	variables	FORTAN
non-linear elements	deadtime	integration	Feedforward	Forward
parameters	mass	modelling	compensation	channels
-parameter systems	range	Enthalpy relaxation	control	control
simulation	Efficiency	Entropy	networks	elements
Distribution	enhancement	Envelopes	Fermentation processes	paths
automation	Efficient	Environmental	Fibre	signals
control	algorithms	coefficients	amplifiers	Four-wheel
feeders	evaluation	stability	conduction velocity	drive
networks	Eigenfunction	Environment architectures	connectors	steering
readout systems	Eigenmode analysis	control	couplers	Fourier
systems	Eigenstructure assignment	Environmental engineering	interferometers	analysis
Distributions	Eigenvalue	Environments	networks	optics
Disturbance	assignment	EPROM	optic	transforms
localization	lower bounds	Equalization	gyros	Fourth-generation languages
parameters	placement	Equilibrium	networks	Fractal systems
rejection	problems	Equipment	sensing	Fractals
signals	Eigenvalues	Ergonomics	thermometry	Fractional harmonics
variables	Eigenvectors	Error	preamplifiers	Fractions
District heating	Electric	analysis	Field effect transistors	Frame synchronization
Disturbance rejection	field sensors	control	Field effects	Frequencies
Dither	fields	-correcting codes	Fieldbus	Frequency
Dividers	machines	correction	Filter	changers
Division	power systems	criteria	banks	control
Documentation	throttle control	-detecting codes	circuits	conversion
Documents	vehicles	detection	design	-dependent
Domain analysis	Electrical	estimation	stability	characteristics
Domains	activity	-free	Filtering	dispersion
Dominant	appliances	probability	problems	dividers
points	behaviour	rate performance	techniques	domains
roots	breakdown	rates	theory	estimation
Drag cup motors	characteristics	transfer functions	Final	measurements
DRAM	conduction	Estimation	controlling drives	modulation
Drawings	conductivity	algorithms	value theorem	-response
Drift	contacts	parameters	values	characteristics
rate	feedback	theory	Finance	methods
velocity		Estimators		responses
Driver		Ethernet		signal analysis

- spectrum
- stabilization
- standards
- tracking
- Friction
- Front end
- Fuel control
- injection
- Full
 - graphic displays
 - wave analysis
 - wave discontinuities
 - waves
- Function
 - approximation
 - generators
- Functional
 - blocks
 - chains
- Fundamental
 - constants
 - matrices
 - processes
 - relations
- Fuzzification
- Fuzziness
- Fuzzy
 - control
 - data
 - expert systems
 - hybrid systems
 - inference
 - inputs
 - logic
 - modelling
 - models
 - outputs
 - sensors
 - sets
 - set theory
 - subsets
 - supervision
 - systems

G

- Gain
 - characteristics
 - crossover frequency
 - cut-off frequency
 - dynamics
 - enhancement methods
 - margins
 - modulation
 - regimes
 - saturation
 - suppression
- Game theory
- Gap
 - electrical machines
 - elements
 - measurements
 - transient torques
- Garbage
- Gas
 - insulated
 - substations
 - switchgear
 - turbines
- Gauss Markov sources
- Gaussian
 - distributions
 - functions
 - noise
 - processes
- General
 - bilinear transformations
 - nonperiodic waves
 - simulators
- Generalized
 - connection networks
 - linear systems
 - modus ponens
 - predictive control
 - quantizers
 - sidelobe cancellers
 - state space
- Generated Lyapunov
 - functions
- Generation

- lifetime
- Generator
- Generators, electric
- Genetic algorithms
- Geometric
 - approaches
 - codes
 - distributions
 - properties
- Geometrical theory
- Geometry
- Gimbal axes
- Gimbals
- Global
 - optimization
 - positioning systems
 - stability
- Gradient methods
- Gradients
- Gradiometers
- Graph theoretic models
- Graph theory
- Graphic
 - displays
 - printers
- Graphs
- Green/Es function
- Group work
- Guidance systems
- Gyromagnetic ratios
- Gyros
- Gyroscopes

H

- Hall
 - effect
 - elements
- Hand-printed characters
- Handling
- Hardware
- Harmonic
 - analysis
 - balance
 - analysis
 - techniques
 - drives
 - functions
 - generation
 - response characteristics
 - responses
- Harmonics
- Hashing
- Headers
- Heart wall motions
- Heat
 - exchangers
 - flows
- Helicopter
 - control
 - dynamics
- Heuristic
 - programming
- Heuristics
 - searches
- Hierarchical
 - control
 - decision making
 - structures
 - systems
- Hierarchically intelligent
 - control
- Hierarchies
- High
 - current density
 - density
 - efficiency
 - frequency
 - diffraction
 - noise
 - performance
 - gain
 - feedback
 - temperature
 - stability
 - superconductors
- Higher-order statistics
- Hilbert
 - spaces
 - transformers

- Hill climbing
- H-infinity
 - control
 - optimization
- Histograms
- Holding
 - actions
 - elements
 - voltages
- Holography
- Huffman codes
- Human
 - brain
 - centered design
 - error
 - factors
 - machine interface
 - perception
 - reliability
 - supervisory control
- Hurwitz
 - criterion
 - polynomial
- HVDC transmission lines
- Hybrid
 - computers
 - modes
 - vehicles
- Hydraulic
 - accumulators
 - actuators
 - amplifiers
 - motors
 - relays
 - turbines
- Hydroelectric systems
- Hydrogenerators
- Hydrothermal power systems
- Hyperstability
- Hypertension
- Hypotheses
- Hysteresis
 - error
 - loops
 - losses
 - motors

I

- Ideal values
- Identifiability
- Identification
 - algorithms
- Identifiers
- Idle speed control
- IF-THEN operators
- Image
 - amplification
 - analysis
 - coding
 - compression
 - converters
 - distortion
 - enhancement
 - flows
 - intensifiers
 - interpolation
 - matching
 - modelling
 - motion compensation
 - processing
 - recognition
 - reconstruction
 - registration
 - restoration
 - segmentation
 - sensors
 - smoothing
- Imaginary axis
- Impact
- Impedance
 - control
- Implementation
 - functions
 - responses
 - signals
- Implication operators
- Implicit systems
- Impulse
 - conditions
 - functions
 - responses
 - signals
- Impulses
- Incomplete data
- Index
 - method
 - profiles
- Indexes
- Indicated angles
- Indices
- Indicial responses
- Indirectly controlled
 - systems
 - variables
- Induced
 - efficiency enhancement
 - instability
- Inductances
- Induction
 - generators
 - machines
 - motor design
 - motors
- Inductive pickoff
- Inductors
- Industrial
 - control
 - production systems
 - robots
- Industry automation
- Inertia
 - matrices
- Inertial
 - measurement units
 - navigation
 - platform
 - reference units
 - sensors
- Inference
 - engines
 - processes
- Infinity control
- Information
 - analysis
 - capacity
 - depth
 - flows
 - integration
 - retrieval
 - systems
 - technology
 - theory
- Infrared detectors
- Inherent
 - feedback
 - stability
- Inheritance
- Initial
 - characterization
 - states
- Injection moulding
- Inner
 - loops
 - matrices
- Innovation
- Input
 - admittance
 - centralised systems
 - decentralised systems
 - elements
 - equipment
 - estimation
 - impedance
 - matrices
 - signals
- Inputs
- Insensitive
- Insensitivity
- Instability
- Insulation
- Insulators
- Insulin sensitivity
- Integer programming
- Integral
 - action
 - factors
 - rates
 - times
 - actions
 - control
 - controllers
 - cross sections
 - equation formulations
 - equations

- formulation
- performance indices
- representations
- Integrals
- Integrated
 - circuit
 - antennas
 - yields
- circuits
- injection logic
- optics
- plant control
- vehicle highway systems (IVHS)
- Integrating
 - amplifiers
 - elements
 - gyros
- Integration
- Integrators
- Intelligence
- Intelligent
 - control
 - cruise control
 - instrumentation
 - knowledge-based systems
 - machines
 - manufacturing systems
- Intensity
 - changes
 - modulation method
 - noise
- Interacting
 - queues
 - service stations
- Interaction
- mechanisms
- Interactive
 - approaches
 - programs
 - vehicle control
 - vehicle dynamics
- Interactor matrices
- Interchangeable terminals
- Interconnected systems
- Interconnection
 - matrices
 - networks
 - technology
- Interdigital transducers
- Interdisciplinary design
- Interface
 - state generation
 - states
- Interfaces
- Interference
- Interleaved memory
- Interlocking
- Intermittent signals
- Internal
 - combustion engines
 - topology
- International
 - stability
 - surveys
- Interplanetary spacecraft
- Interpolation
 - algorithms
 - approximation
- Interpretation trees
- Interpreters
- Intervals
- Intrinsic
 - bistability
 - modes
- Invariance
- Invariant systems
- Invariants
- Inventory control
- Inverse
 - dynamic problem
 - dynamics control
 - kinematic problem
 - Monte Carlo
 - Nyquist array
 - scattering
 - problem
 - system
 - transfer
 - function
 - locus
 - transform

- Inversion
- Inverter drives
- Inverters
- ISDN
- ISO
- Isolated networks
- Iterative
 - improvement methods

J

- Jacobian
 - matrices
- JIT manufacturing
- Jitter
- Joint
 - probability
 - trajectories
- Jordan
 - canonical form
 - normal form
- Jump process
- Junctions

K

- Kalman filters
- Kharitonov
 - theorem
- Kinematics
- Kinetic control system
- Knowledge
 - acquisition
 - based control
 - based systems
 - engineering
 - representation
 - tools
 - transfer

L

- Labels
- Laboratory
 - education
 - techniques
- Ladder
 - algorithms
 - filters
- Lag
 - elements
 - networks
- Laplace transforms
- Large
 - AC motors
 - cassegrain antennas
 - deviations
 - scale systems
 - signals
 - space structures
- Largest singular value
- Lattice filters
- Lattices
- Lead networks
- Leads
- Leakage
 - current reduction
 - currents
 - properties
- Lean manufacturing
- Learning
 - algorithms
 - control
 - systems
- Least squares
- Least-squares
 - approximation
 - algorithm
 - estimation
 - identification
 - method
 - problems
- Level control
- Levels
- Life cycles
- Lifetime
- Light

- Likelihood
 - function
- Limit
 - cycles
 - theorems
- Limited
 - codes
 - data
- Limiters
- Limiting
 - control actions
 - distributions
- Limits
- Linear
 - analysis
 - block codes
 - codes
 - control systems
 - dependence
 - differential transformers
 - equations
 - estimation
 - filters
 - independence
 - integrated optics
 - motors
 - multivariable systems
 - networks
 - optimal
 - control
 - regulators
 - output feedback
 - phase
 - prediction
 - programming
 - quadratic regulators
 - systems
 - theory
- Linearizable systems
- Linearization
- Linguistic
 - support
 - synthesis
 - variables
- Living systems
- LMS algorithm
- Load
 - dispatching
 - flows
 - flow solutions
 - forecasting
 - frequency control
 - modelling
 - regulation
- Local
 - area networks
 - computer systems
 - control
 - controllability
 - structures
- Locus
- Logarithmic time
 - dependence
- Logging
- Logic
 - analysers
 - applications
 - arrays
 - circuits
 - controllers
 - design
 - diagrams
 - gates
 - minimization
 - units
- Logical
 - control
 - operation
 - products
 - sums
- Long-term memory
- Loop
 - gain
 - phase angles
 - transfer
- Loops
- Loss minimization
- Losses
- Low
 - drive power
 - energy
 - frequencies

- frequency dispersion
- frequency intensity
- frequency noise
- frequency scattering
- level languages
- noise
 - noise channels
 - noise optimization
- pressure
- threshold
- threshold current
- Lowpass filters
- LQG control
 - method
- LQR control method
- LSI
 - chips
- Lubricants
- Lumped constant models
- Lumped-parameter systems
- Lyapunov
 - equation
 - function
 - methods
 - stability

M

- Machine
 - code
 - languages
 - learning
 - oriented languages
 - recognition
- Machinery
- Machines
- Machining
- Macro
- Magnetic
 - amplifiers
 - bearings
 - brakes
 - clutches
 - dipole excitation
 - field computation
 - fields
 - fluid clutches
 - modulators
 - powder clutches
 - properties
 - recording channels
 - resonance microscopy
 - responses
 - superlattices
 - suspension
- Magnetically insulated gaps
- Magnetization
 - reversal
- Magnetized ferrite
- Magnitude
 - contour
- Main memory
 - database systems (MMDBS)
- Maintenance
 - engineering
- Man/machine
 - interaction
 - interfaces
 - systems
- Management
 - systems
- Manipulated variables
- Manipulation
 - tasks
- Manipulator inertia matrices
- Manipulators
- Manoeuvrability
- Manoeuvring target
- Manual
 - control
 - operations
- Manufacturing
 - processes
 - systems
- Many-degrees-of-freedom
 - systems
- Marginal
 - distribution
 - stability
- Marine systems
- Markov
 - decision problems
 - decision processes
 - models
 - parameters
- Mass
 - spectrometry
- Master-slave systems
- Matched filters
- Material
 - balance control
 - systems
- Mathematical
 - models
 - programming
 - systems theory
- Matrix
 - algebra
 - determinants
 - elements
 - equations
 - formulation
 - inversion
 - methods
 - polynomial equations
 - printers
 - Riccati equations
 - triangularization
- Maximum
 - entropy
 - likelihood
 - estimators
 - principle
- Maxwell equations
- MC machine tools
- Mean
 - square error
 - time
 - between failures (MTBF)
 - to failure (MTTF)
 - to repair (MTTR)
 - value analysis
- Measured
 - feedback
 - values
- Measurement noise
- Measuring
 - elements
 - points
 - range
 - span
 - transducers
 - transmitters
 - units
- Mechanical
 - engineering
 - manipulators
 - properties
 - stress
 - systems
- Mechanisms
- Mechanization
- Medical systems
- Median
 - filters
 - frequency
- Medical applications
- Membership
 - degrees
 - functions
- Memory
 - applications
 - banks
 - cell
 - interference
 - junction cells
 - units
- Memoryless
 - sources
- Mental workload
- Meta-level knowledge
- Metadyne
 - generators
- Metals
- Method of weighted residuals
- Methodology
- Metrics
- Microcomputer
 - based control
 - based systems
 - systems
- Microcomputers

- Microprocessor control
- Microprocessors
- Microprogramming
- Microscopes
- Microstrips
- Microsystems
- MIMO
- Minimax techniques
- Minimization
- Minimum
 - distance
 - phase systems
 - principle
 - redundancy
 - time control
 - variance control
- Minor loops
- Missiles
- Mixed sensitivity problem
- Mobile robots
- Modal
 - control
 - couplers
 - transformation
- Mode
 - analysis
 - structure
 - theory
- Model
 - approximation
 - based control
 - based recognition
 - following control
 - management
 - reduction
 - reference
 - adaptive control
 - control
- Modelling
 - errors
- Models
- Modems
- Modes
- Modulation
- Moment
 - method
- Moments
 - of inertia
- Monitored control systems
- Monitoring
 - elements
 - feedback
 - loops
- Monitors
- Monopolar
- Monostable
 - multivibrators
 - trigger elements
- Monotone systems
- Monotonicity
- Monte Carlo
 - calculation
 - method
 - simulation
- Motion
 - estimation
 - parameters
- Motor
 - control
 - elements
 - patterns
 - units
- Motors
- Mouse
- Movement
- Moving
 - average models
 - objects
- Multi-access systems
- Multi-action controllers
- Multi-input/multi-output
 - systems
- Multicache
- Multichannel
 - controllers
- Multichip
- Multicomputer systems
- Multiconductor
 - systems
 - transmission lines
- Multidimensional
 - digital filters

- systems*
- Multilevel
 - codes*
 - control*
 - controllers*
 - structures*
 - systems*
- Multiloop control
- Multimachine
- Multimedia
- Multiobjective optimisations
- Multiple-criterion
 - optimisation*
- Multiplicative noise
- Multipliers
- Multiport
 - networks*
- Multiposition controllers
- Multiprocessing systems
- Multiprocess or systems
- Multiprocessors
- Multiprogramming
- Multirate
- Multisensor integration
- Multispeed
 - controllers*
 - floating action*
- Multistep
 - avalanche chamber controllers*
- Multitarget tracking
- Multivalued mapping
- Multivariable
 - control*
 - systems*
 - feedback*
 - control*
 - systems*
 - polynomials*
 - systems*
- Multivariate quality control
- Multiversion software
- Multivibrator

N

- NAND
 - elements*
 - operations*
- Nash games
- Natural
 - frequencies*
 - languages*
 - line widths*
- Navigation
 - systems*
- Negative
 - feedback*
 - transconductance*
- Network
 - analysers*
 - observability*
 - reliability*
 - topologies*
- Networks
- Neural
 - activity*
 - control*
 - dynamics*
 - network models*
 - nets*
 - networks*
- Neutral
 - steer*
 - zone control*
 - zones*
- Nichols
 - charts*
 - diagrams*
- Noise
 - analysis*
 - characteristics*
 - characterization*
 - control*
 - levels*
 - power spectrum*
- Noisy
 - channels*
 - images*
 - speech*

- Non-Gaussian processes
- Non-interacting control
- Nonlinear
 - analysis*
 - circuits*
 - control*
 - systems*
 - distortion*
 - equations*
 - external cavity*
 - filters*
 - gain*
 - interfaces*
 - mirrors*
 - models*
 - optical interactions*
 - Poisson equation*
 - potentiometers*
 - programming*
 - refraction*
 - refractive indices*
 - systems*
 - theory*
- Nonlinearity
- Non-minimum phase
 - systems*
- Non-orthogonal problems
- Non-parametric
 - identification*
 - regression*
- Non-polar liquids
- Non-sinusoidal waves
- Non-stabilizable systems
- Non-stationary
 - learning characteristics*
 - signals*
 - systems*
- Non-symmetric linear
 - systems*
- NOR
 - elements*
 - operations*
- Normal distribution
- Norms
- NOT elements
- Notch filters
- Nozzles
- Nuclear
 - plants*
 - power*
 - stations*
 - reactors*
- Number systems
- Numeric control
- Numerical
 - algorithms*
 - analysis*
 - methods*
 - simulation*
 - solutions*
- Nyquist
 - diagrams*
 - filters*
- Nyquist's criterion

O

- Object
 - modelling techniques*
 - oriented programming*
 - recognition*
- Objects
- Observability
 - indices*
- Observable
- Observers
- Obstacle
 - avoidance*
 - detection*
- Obstacles
- Off-line
 - programming*
- Office automation
- Offset
 - voltages*
- Ohmic contacts
- Ohms
- On-line
 - closed loops*
 - control*

- security analysis*
- On-off
 - actions*
 - control*
 - controllers*
- Open
 - loop*
 - control systems*
 - transfer functions*
 - loops*
 - structure mixers*
- Opening switches
- Operability
- Operating systems
- Operational
 - amplifiers*
 - calculus*
 - characteristics*
- Operations research
- Operators
- Optical
 - amplifiers*
 - band gap*
 - birefringence*
 - bistability*
 - character recognition*
 - communication*
 - constants*
 - data storage*
 - directional couplers*
 - disks*
 - feedback*
 - fibre networks*
 - fibres*
 - fields*
 - flows*
 - implementation*
 - modulation*
 - modulators*
 - nonlinearities*
 - parametric oscillators*
 - polarization bistability*
 - properties*
 - pulses*
 - receivers*
 - response*
 - solutions*
 - spectroscopy*
 - stochastic control*
 - storage devices*
 - switches*
 - transducers*
 - transmission*
 - wave breaking*
- Optimal
 - control*
 - estimation*
 - experiment design*
 - filtering*
 - load flow*
 - power flow*
 - priority assignment*
 - regulators*
 - rejection*
 - search techniques*
 - systems*
 - trajectory*
- Optimality
- Optimization
 - devices*
 - problems*
- Optimum
- Order reduction
- Organizational factors
- OR operations
- Oscillation
- Oscillators
- Outages
- Outer
 - gimbals*
 - loop*
- Output
 - axis*
 - brushes*
 - error identification*
 - feedback*
 - injection*
 - matrices*
 - regulation*
 - signals*
 - variables*
 - winding*

- Overall stability
- Overdamping
- Overflow
- Overlaid
- Overlap
- Overlapping
- Overload
- Overshoot
- Oversteer
- Overtones
- Overvoltages
- Overwrite spectra

P

- Package design
- Packages
- Packets
- Page printers
- Paper industry
- Parallel
 - algorithms*
 - computation*
 - computers*
 - memories*
 - networks*
 - processing*
 - processors*
 - programs*
 - transducers*
- Parallelism
- Parameter
 - estimation*
 - identification*
 - optimization*
- Parameters
- Parametric
 - excitation*
 - resonances*
 - variation*
- Parametrization
- Parsers
- Partial
 - differential equations*
 - expansions*
 - response channels*
- Particle size measurement
- Particulate processing
- Passive
 - compensation*
 - elements*
 - filters*
 - ranging*
 - suspension*
- Passwords
- Path planning
- Pattern
 - generation*
 - identification*
 - recognition*
- Pay-off functions
- P controllers
- PD controllers
- Performance
 - analysis*
 - characteristics*
 - drives*
 - evaluation*
 - functions*
 - indices*
 - limits*
 - monitoring*
- Periodic
 - motion*
 - replacement*
 - structures*
 - waves*
- Permalloy
 - films*
- Permanent magnet
 - motors*
 - undulators*
- Permanent magnets
- Permeability
- Permittivity
- Permutation
 - algorithms*
- Perturbation
 - analysis*
 - theory*
- Perturbed coefficients
- Personnel qualifications
- Petri-nets
- Pharmacokinetic data
- Phase
 - advance*
 - controllers*
 - network*
 - angles*
 - calibration*
 - centres*
 - characteristics*
 - conjugation*
 - contours*
 - correction*
 - crossover frequency*
 - difference*
 - distortion*
 - epitaxy*
 - frame analysis*
 - inverters*
 - lag*
 - lead*
 - locked arrays*
 - locked loop*
 - locking*
 - locus*
 - margins*
 - modulation*
 - noise*
 - only modulation*
 - perturbation technique*
 - plane*
 - response*
 - shift*
 - shifters*
 - space*
 - stability*
 - system identification*
 - systems*
 - transition*
- Phased array
- pH control
- Photodiodes
- Photomultipliers
- Photons
- Physical models
- Physics
- Physiological models
- Physiology
- Pick off
- PI controllers
- Picture
 - elements*
 - processing*
- PID
 - control*
 - controllers*
- Piecewise linear
 - analysis*
 - controllers*
- Pipelined architectures VLSI
- Pipelines
- Pipelining processing
- Piston valves
- Pistons
- Pitch
- Pitchfork bifurcation
- Pixels
- Plane wave exposure
- Plane waves
- Planning
- Plants
- Plantwide
- Plastics industry
- Pneumatic
 - relays*
 - systems*
- Point-to-point control
- Pointing systems
- Poisson
 - arrivals*
 - processes*
- Polar plots
- Polarity
- Polarization
 - analysis*
 - dependence*
- Pole
 - assignment*
 - zero assignment*
- Poles

Polygons	<i>antennas</i>	Propulsion control	<i>of set value</i>	<i>algorithm systems</i>
Polymerization	<i>circuit antennas</i>	Protection	<i>splitting</i>	<i>analysis</i>
Polynomial	<i>circuits</i>	Protocols	Ranges	<i>estimates</i>
<i>methods</i>	<i>dipoles</i>	Prototyping	Ranks	<i>relationships</i>
<i>models</i>	Printers	Pseudo random sequences	Rapid programming	Regularization
<i>transforms</i>	Printing industry	Pulp industry	Rate	Regulating
Polynomials	Prior history	Pulse	<i>actions</i>	<i>elements</i>
Polyphase networks	Priority	<i>generation</i>	<i>constants</i>	<i>energy</i>
Popov criterion	Probabilistic	<i>position modulation</i>	<i>feedback</i>	<i>units</i>
Port fuel injection	<i>data association</i>	<i>radiation</i>	Rational matrices	Regulation
Posed problems	<i>load flows</i>	<i>response</i>	Ratios	Regulator
Position	<i>logic</i>	<i>sequences</i>	Re-energization	<i>control</i>
<i>accuracy</i>	<i>models</i>	<i>shape synthesis</i>	Reachability	<i>theory</i>
<i>control</i>	<i>risk assessment</i>	<i>signals</i>	Reachable states	Regulators
<i>errors</i>	<i>simulation</i>	<i>(train) functions</i>	Reactive power	Rejection
<i>estimation</i>	Probabilities integration	<i>trains</i>	Reactor control	Relational databases
<i>feedback</i>	Probability	<i>width</i>	<i>modeling</i>	Relative stability
<i>location</i>	<i>density function</i>	<i>-width modulation</i>	Readouts	Relativistic
<i>-sensitive</i>	<i>distribution function</i>	Pulses	Real	Relaxation
<i>photomultipliers</i>	Probes	<i>axis</i>	<i>time</i>	<i>analysis</i>
<i>velocity</i>	Problem solvers	<i>-time</i>	<i>AI</i>	<i>oscillation frequency</i>
Positioning systems	Problem-oriented languages		<i>communication</i>	Relay control
Positive	Procedure-oriented		<i>computers</i>	Relays
<i>columns</i>	<i>languages</i>	Quadratic	<i>computer systems</i>	Reliability
<i>displacement pumps</i>	Process	<i>control</i>	<i>expert systems</i>	<i>analysis</i>
<i>feedback</i>	<i>automation</i>	<i>optimal regulators</i>	<i>languages</i>	<i>evaluation</i>
Possibility theory	<i>computers</i>	<i>performance indices</i>	<i>operating systems</i>	<i>test systems</i>
Postmortems	<i>control</i>	<i>programming</i>	<i>systems</i>	<i>theory</i>
Potentials	<i>-control languages</i>	<i>stability</i>	<i>tasks</i>	Reliable
Potentiometer pick off	<i>equipment</i>	<i>stabilizability</i>	Realisation	Relief valves
Potentiometers	<i>identification</i>	Quadrature	<i>theory</i>	Remote control
Power	<i>models</i>	<i>axis</i>	Reasoning	Renewable energy systems
<i>amplifiers</i>	<i>parameter estimation</i>	<i>brushes</i>	Receivers	Renewal processes
<i>assisted control</i>	<i>simulators</i>	<i>detection</i>	Reception	Reproducibility
<i>control</i>	Processes	<i>mirror filters</i>	Receptors	Reproducible
<i>circuits</i>	Processing techniques	Qualitative	Recognition	Requirements analysis
<i>density spectrum</i>	Processor	<i>analysis</i>	Recording	Reserves
<i>deposition</i>	<i>arrays</i>	<i>control</i>	<i>channels</i>	Reset
<i>characterization</i>	<i>systems</i>	<i>simulation</i>	<i>codes</i>	<i>actions</i>
<i>devices</i>	Processors	Quality	<i>heads</i>	<i>times</i>
<i>dissipation</i>	Product strategy	<i>control</i>	<i>media</i>	Residue
<i>distribution</i>	Product quality	<i>of work life</i>	<i>noise</i>	<i>feedback</i>
<i>distribution circuits</i>	Production	Quantity	<i>performances</i>	<i>number systems</i>
<i>dividers</i>	<i>control</i>	Quantization	<i>properties</i>	Residues
<i>flow</i>	<i>costs</i>	<i>errors</i>	<i>technology</i>	Resistance
<i>generation</i>	<i>systems</i>	Quantized	Recordings	Resistivity
<i>law descriptions</i>	Productivity	<i>signals</i>	Recovery	Resistors
<i>losses</i>	Products	<i>states</i>	<i>circuits</i>	Resolution
<i>management</i>	<i>industry</i>	Quantizer design	<i>times</i>	Resolved
<i>spectra</i>	Profiles	Quantizers	Recruitment	<i>gain measurements</i>
<i>spectral density</i>	Program	Quaternion feedback	<i>modulation</i>	<i>reflectance</i>
<i>station control</i>	<i>assemblers</i>	Queues	Rectangles	Resolvent matrices
<i>supplies</i>	<i>controllers</i>	Queuing	Rectangular	Resonance
<i>supply voltages</i>	<i>controlling elements</i>	<i>network models</i>	<i>wave transforms</i>	Resonant frequencies
<i>-system</i>	<i>costs</i>	<i>theory</i>	<i>waveguides</i>	Resource allocation
<i>control</i>	<i>diagnostics</i>		<i>waves</i>	Response
<i>stabilizers</i>	<i>documentation</i>		Rectifiers	<i>curves</i>
<i>voltages</i>	<i>stores</i>		Recursive	<i>functions</i>
<i>systems</i>	Programmable		<i>algorithms</i>	<i>measurement</i>
<i>transformers</i>	<i>controllers</i>		<i>approaches</i>	<i>times</i>
<i>transmission</i>	<i>logic controllers</i>	Radial	<i>control algorithms</i>	Responses
<i>winding</i>	<i>read only memory (PROM)</i>	<i>base function networks</i>	<i>digital filters</i>	Restricted instruction sets
Preamplifiers	Programmed control	<i>pumps</i>	<i>estimation</i>	Return
Precision	Programming	Rail traffic	<i>filters</i>	<i>difference ratio</i>
<i>measurements</i>	<i>approaches</i>	Railways	<i>least squares</i>	<i>differences</i>
Prediction	<i>environments</i>	RAM	Reduced-order models	<i>signals</i>
<i>error methods</i>	<i>languages</i>	Ramp	Reduction	Reversibility
<i>intervals</i>	<i>support</i>	<i>function response</i>	Redundancy	Reversible systems
<i>methods</i>	<i>systems</i>	<i>functions</i>	<i>control</i>	Revolutions
<i>problems</i>	<i>theory</i>	<i>input</i>	<i>reduction</i>	Riccati
Predictive control	Programs	Random	Redundant	<i>equations</i>
Predictor theory	Project	<i>access memory (RAM)</i>	Reference	Ride
Pre-excitation	<i>management</i>	<i>drift</i>	<i>adaptive control</i>	<i>comfort</i>
Preprocessing	<i>selection</i>	<i>fields</i>	<i>architecture</i>	Rise time
Preprocessors	Projects	<i>functions</i>	<i>elements</i>	Risk
Preset	Propagation	<i>inspection</i>	<i>input</i>	Risk
Pressure	Proportional	<i>media</i>	<i>elements</i>	RNA
<i>control</i>	<i>action factor</i>	<i>noise</i>	<i>signals</i>	Road traffic
<i>measurements</i>	<i>actions</i>	<i>number generators</i>	<i>variables</i>	Robot
<i>-sensitive probes</i>	<i>bands</i>	<i>numbers</i>	<i>windings</i>	<i>arms</i>
<i>transducers</i>	<i>control factors</i>	<i>perturbations</i>	Regeneration	<i>calibration</i>
<i>volume relationships</i>	<i>controllers</i>	<i>processes</i>	Regenerative feedback	<i>control</i>
<i>wire chambers</i>	<i>counters</i>	<i>searches</i>	Regions	<i>dynamics</i>
Pressurized water reactors	<i>gain</i>	<i>telegraph noise</i>	Register allocation	<i>kinematics</i>
Prevention	<i>plus derivative</i>	<i>variables</i>	Registers	<i>navigation</i>
Preventive maintenance	<i>action</i>	<i>walk</i>	Registration	<i>programming</i>
Primal sketches	<i>controllers</i>	Range	Regression	<i>vision</i>
Primary	<i>plus integral</i>	<i>data</i>		Robotic manipulators
<i>regulation</i>	<i>action</i>	<i>finders</i>		Robotics
<i>sites</i>	<i>controllers</i>	<i>images</i>		Robots
Principle of superposition	<i>plus derivative action</i>	<i>of disturbance</i>		Robust
Printed	<i>plus derivative controllers</i>			<i>control</i>
				<i>estimation</i>

- estimators*
- performance*
- stability*
- stabilizability*
- transmission*
- Robustness
- Root locus
 - diagrams*
- Root mean square value
- Roots
- Rotating disks
- Rotation
- Rotor generators
- Rotors
- Round-off noises
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