

Appendix 3

Miscellany

abscissa of regularity
absorbing set
absorptance vs. absorptivity
absorption edge
Achilles and Tortoise
acoustic inertance
activity analysis
acute angle
ad hoc
addendum or note added in proof
adeles and ideles
adjacement matrix
adjoint Hilbert space
aerial array
a fortiori
agent of type 1
aggregate endowment
aliases
All-America [adj.] vs.
 All-American [n.]
all but a finite number
all its derivatives
alloy vs. blending
alternating group of degree n
altogether vs. in the altogether
amalgam vs. mixture
amenable group
ample bundle
analog and analogy
analog simulation
analytic set
analytically thin set
ansatz of a solution
apertures and stops
apogee and perigee
a posteriori distribution
approximate identity in
 an algebra
a priori estimate
Archimedean unit
arcwise connected space
Argand diagram
Artian module
ascending chain condition
asymptotic expansion/behavior
 and asymptote
at high temperature/
 constant pressure
at most finitely many k 's
at stages/moments vs. in
 places/steps; on sides/hands
at this juncture
atled
autocephalous and autonomous
 churches
autoregressive process
avalanche breakdown
backward and forward differences
balayage principle
ball with center x and radius r
band of a K -space
bang-bang principle
bar-theorem

barrel	by dint of \mathcal{A}
barycentric refinement	by force of \mathcal{A}
base for a neighborhood	by means of \mathcal{A}
system/of a cylinder	by order of \mathcal{A}
basic solution	by reason of \mathcal{A}
basis for a Banach space	by the aid of \mathcal{A}
Bayesian approach	by way of \mathcal{A}
Bhagavat Gita	by/with the help of \mathcal{A}
bidiagonal, tridagonal vs.	canonical projection
two-diagonal, three-diagonal	cap product
bifurcation set	capacitable set
bigoted opinions of ε - δ -ism	capacitatory mass distribution
binumeration	capacity
Biot and Savar's law	capillary wave
bipolar relative to a pairing	caps and faces
Boolean functions	carte blanche
Boolean-valued analysis	Cartesian coordinates/product
bordered surface	casual vs. causal
bornivorous sequence	casus irreducibilis
bound variable	catastrophe theory
boundary of a manifold	categories admitting limits
bounded/limited/restricted	celestial mechanics
quantifier	cellular cohomology theory
box-product topology	center of gravity/of a group/
bra-vector	of a pencil of hyperplanes
bracket product	chain rule
braid group	change-of-variable formula
branch and bound methods	Charles's or Gay-Lussac's law
branched minimal surface	Chebyshev Equioscillation
branching process	Theorem
bremsstrahlung	Chinese Remainder Theorem
Broddingnag and Lilliput	choice function
bubbly slug flow	chunk of a set
buckling factor	circular annulus of width a
budget constraint	circumcision
bulk viscosity	clan
bundle of homomorphisms	Clebsh-Gordan expansion
burn-out crisis	clopen set

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- closed-loop and open-loop
 - closedness
 - closeness of a packing
 - closure
 - cluster point
 - cnoidal and solitary waves
 - code for \mathcal{A}
 - co-echelon space
 - coarser filter
 - cobordism and concordance
 - coercive operator
 - cognoscibility of the world
 - collectionwise Hausdorff space
 - combing a braid
 - commodity-price duality
 - compact-open topology
 - compatible with operations
 - compendious exposition
 - complanar vector
 - complementary set
 - complemented subspace
 - complete integrability/solution
 - completion of a uniform space
 - composite function
 - compound Poisson process
 - compressible fluid
 - concircularly flat space
 - conditional solution/mean
 - conditionally complete lattice
 - confidence/fiducial interval
 - conformality vs. conformity
 - conjugate space/operator
 - connection
 - connectives
 - conservation of mass and energy
 - constant width
 - constraint qualification
 - constructible set
 - constructive ordinals
 - consumption bundle
 - context and contents
 - contour of integration
 - contraction principle
 - contracting or nonexpansive mapping
 - controls
 - convergence in measure/
in p th mean
 - converse class/theorem
 - conversion of mankind
 - convex hull
 - coordinates with respect to
a basis
 - corona problem
 - correction factor to a coefficient
 - correlogram
 - coset map/canonical projection
 - Coulomb force
 - countable model
 - counting function
 - Cramer rule
 - Cramér–Rao inequality
 - credo, creed, and credendum
 - crisp set vs. fuzzy set
 - Critique of Pure Reason
 - crookedness of a knot
 - cross product/section
 - cubic close packing
 - cul-de-sac
 - cup product
 - current algebra
 - curriculum vitae
 - curve of pursuit
 - cushioned refinement
 - cusp singularity
 - cut and glue method

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|----------------------------------|----------------------------------|
| cutoff | dictum de omni |
| cutset | difference-differential equation |
| cycle index | difficulties in formulation |
| cyclic vector | diffraction grating |
| cyclide of Dupin | Diophantine equations |
| cycloid | direct product |
| damping ratio | directed family |
| dashing principle | disk algebra |
| data analysis/encryption | dissection and valuations |
| Decalog or the Ten | distance between x and y |
| Commandments | distinct elements |
| deep water wave | ditto |
| defect of a meromorphic function | diurnal aberration |
| deficiency index of an operator | divergent double series |
| definiendum et definiens | dogma, doctrine, and tenet |
| defining relations | dominant integral form |
| definite quadratic form | Dominated Ergodic Theorem |
| degeneracy index | dormant idea |
| degenerate kernel | double sequence |
| degree of a mapping/of an | dual space |
| algebraic variety/of | duality between X and X' |
| recursive unsolvability/of | dummy index |
| ramification of a branch | duo-trio test |
| point | Dupin indicatrix |
| delay-differential equation | duxial set |
| deleted space | écart |
| denumerable set | eddy current/velocity |
| derivation tree | Edge-of-the-Wedge Theorem |
| derivatives and primitive | efficiency, effectiveness, and |
| functions | efficacy |
| derived function | efficiency frontier |
| descents and ascents | eigenvalue |
| desideratum | Einstein summation convention |
| determined system | elemental truths and elementary |
| developable space | particles |
| dew point | ellipse |
| dextral and sinistral | ellipsis |
| diagrammatic representation | ellipsoid of revolution |

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- embedding and immersion
 - empty set
 - energy integral
 - entourage
 - entries, members, components,
 or terms of a sequence
 - entry of/in a matrix
 - enumeration of a code
 - enveloping von Neumann algebra
 - epigraph
 - Epiphany, Easter, and Whitsun
 - Epstein zeta function
 - equalizer
 - equally-spaced points
 - equations in operators for x
 - equilateral, isosceles, and right
 triangles
 - equilibrium state
 - Eratosthenes sieve
 - Erlangen program
 - erratum
 - error detecting/estimate
 - Escher tile
 - et alia/et al.
 - et alii/et al.
 - et cetera/etc.
 - etale extension and Henselization
 - Euclid axiom
 - Euclidean algorithm
 - Euler characteristic
 - ex falso quod libet
 - exave
 - excess demand
 - exchange economy
 - exegetics
 - exempli gratia
 - existence theorem
 - existential quantifier
 - exit time
 - exotic sphere
 - expansion as $t \rightarrow \infty$ of f
 - expansion of a vector in a basis
 - expansive vs. expensive
 - explanandum et explanans
 - expose
 - extended real axis
 - extension by 0 of f to X
 - extension to/onto all/the whole
 of X
 - exterior product of differential
 forms
 - external law of composition
 - extremal quasiconformal
 mapping
 - extreme point
 - faces of alcoves
 - factor group
 - failure of approximation
 - faithful linear representation
 - fallacy of ratiocination
 - fan shape
 - fast breeder reactor/Fourier
 transform
 - feasible solution
 - fiber bundle vs. foliation
 - fibered manifold
 - fibration
 - fictitious state
 - fidelity criterion
 - fiducial distribution
 - filter on/over a set
 - fine topology
 - finer filter
 - finite-valued function
 - finitistic credenda
 - first splitting time

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- fixation on idioms
 - fixed-point-free mapping
 - fixed-point theorem
 - flabby sheaf
 - flag manifold
 - flat \mathcal{A} -module
 - floating point
 - flows in networks
 - flux density
 - fold, cusp, swallow-tail, butterfly,
and umbilic
 - for lack of \mathcal{A}
 - for the purpose of \mathcal{A}
 - forcefull argument and forcible
entry
 - fractal
 - frame of a bundle
 - Fredholm alternative
 - free group/lattice on/with m
generators
 - Freiheitssatz
 - Frenet frame
 - Froude number
 - fully normal space
 - functionally-distinguishable
points
 - functions periodic in x /
of the same period π /
with/of compact support
 - fuzzy set
 - Gauss forward interpolation
formula
 - Gauss integral
 - Gaussian curvature
 - general solution
 - generic property
 - genus of a variety
 - germ of an analytic function
 - ghosts of departed quantities
 - gluons
 - goodness-of-fit
 - graded module
 - grazing ray
 - great circle (of a sphere)
 - halting time
 - handlebodies and surgery
 - Hauptsatz
 - Hauptvermutung
 - hazard rate
 - heads and tails
 - Heisenberg uncertainty relation
 - Henselian rings
 - Hermitian operator
 - Hilbert Nullstellensatz
 - Hilbertian seminorm
 - hidden variables
 - hierarchy
 - high-precision computation
 - hitting time
 - hold almost everywhere
 - holohedry
 - holomorphic hull
 - holonomy
 - horned sphere
 - hull-kernel topology
 - hyperbolas and hyperbole
 - hypercritical and hypocritical
 - hypograph
 - id est
 - ideas behind the proof
 - ignorabimus
 - ill-conditioned matrix
 - ill-posed problem
 - imbroglio, quandary, and
predicament

immersion
 impervious to perturbation
 Implicit Function Theorem
 in a solid state
 in accordance with \mathcal{A}
 in addition to \mathcal{A}
 in agreement with \mathcal{A}
 in answer to \mathcal{A}
 in briefer words vs. lengthily
 in case of \mathcal{A}
 in cause of \mathcal{A}
 in combination with \mathcal{A}
 in compliance with \mathcal{A}
 in conformity with \mathcal{A}
 in conjugation with \mathcal{A}
 in connection with \mathcal{A}
 in consequence of \mathcal{A}
 in consideration of \mathcal{A}
 in contrast to/with \mathcal{A}
 in contradistinction to \mathcal{A}
 in default of \mathcal{A}
 in essence
 in exchange for \mathcal{A}
 in favor of \mathcal{A}
 in honor of \mathcal{A}
 in juxtaposition with \mathcal{A}
 in line with \mathcal{A}
 in memory of \mathcal{A}
 in need of \mathcal{A}
 in place of \mathcal{A}
 in preparation of \mathcal{A}
 in proposition to \mathcal{A}
 in quest of \mathcal{A}
 in recognition of \mathcal{A}
 in regard to \mathcal{A}
 in relation to \mathcal{A}
 in respect to \mathcal{A}
 in response to \mathcal{A}
 in return to/for \mathcal{A}
 in search of \mathcal{A}
 in statu quo and the status quo
 in such a way that \mathcal{A} holds
 in support of \mathcal{A}
 in the course of \mathcal{A}
 in the case of \mathcal{A} (considering \mathcal{A})
 in the event of/that
 in the form of \mathcal{A}
 in the main
 in the matter of \mathcal{A}
 in this instance/event
 in this stage of reasoning
 in token of respect
 in toto
 inaccessible cardinal
 incipient decay
 incompressible fluid
 independent increments
 index librorum phohibitorum
 indices modulo p
 induced topology
 inductive/induction
 hypothesis/base
 inequalities in N variables
 inertial reference frame
 inevitable, illuminating, deep,
 relevant, responsive, and
 timely mathematics
 inferior/superior in rank
 ingoing subspace
 initial object
 input-output analysis
 inradius and outradius
 inscribed, enscribed, and
 circumscribed circles
 instances of general facts
 integer programming

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| integrals, intergrands, and
integrators | lattice gauge theorem |
| interference fringes | law of excluded middle |
| intertwining operator | layer |
| interval of absolute stability | least-action principle |
| inverse problems | least squares method |
| inversion formula | left-hand side |
| ipso facto | leftmost and rightmost terms |
| irrefutable formula | legend of a map |
| irreversible process | level sets |
| isosceles triangle on base a | libertarian vs. libertine |
| iterated logarithm law | Lichtenberg figures |
| Iwasawa decomposition | life time |
| jet propulsion | likelihood ratio test |
| jets and currents | limit in norm/inferior or
lower/superior or upper |
| joins and meets | Lissajous' figures |
| joint distribution/spectrum | lituus |
| jointly/separately continuous | local ring |
| jump at a point | locally integrable |
| jumping to a conclusion | locking effect |
| juxtaposition and concatenation | locus |
| Kantian antinomies | log-linear analysis |
| Kegel function | lowest common denominator |
| kenosis | main diagonal |
| ket-vector | maladroit malfunctions |
| Killing form | manifold without boundary |
| killing time | many-valued logic |
| Kleinian group | Markov chains |
| knots and links | Markovian equation |
| kurtosis | mathesis universalis |
| labors of Sisyphus | maximal flow, minimal cut |
| laconic, succinct, terse, or
lapidary | meager set |
| lagged variables | mean unbiased estimator |
| lapsus | Mengerlehre |
| latent heat | mesh of a covering |
| Latin square | metric on/for the set |
| | Minkowski functionals or gauges |
| | minor and major axes |

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- misoneism
 - model theory versus fashion
 - business
 - modular law
 - module
 - modulo
 - modulus
 - modus ponens
 - moiré pattern
 - mollifiers, truncators, and
 - regularizations
 - moment of momentum
 - moment problem
 - momentum phase space
 - monad
 - monotone operator
 - monotonic function
 - Mössbauer effect
 - multi-index
 - multigrid methods
 - multilinear form/profit
 - multinomial logit models
 - mutatis mutandis
 - myopia, impatience, or order
 - continuity
 - n -tuple
 - naive set theory
 - nat
 - Nativity of Christ or Christmas
 - natural moving frame
 - necessity and sufficiency
 - negation
 - negentropy
 - nescience vs. omniscience
 - nested intervals
 - net in a set
 - net premium
 - Newton first law
 - Newtonian mechanics
 - next Monday vs. the next
 - chapter
 - nexus
 - nodal point
 - noisy channel
 - nolens volens
 - non-Bayesian approach
 - nondimensional conductance
 - nonperturbative phenomena
 - normal form of a singularity
 - normed space
 - notation
 - notations suggestive of Latin
 - origin
 - noughts and crosses or tic tac toe
 - nowhere dense set
 - nozzle valve
 - n th term
 - nuclear space
 - null space
 - nullity of a linear operator
 - numeration
 - numerator and denominator
 - nutration
 - oblate spheroidal coordinates
 - oblique circular cone
 - observability and controllability
 - obstruction class
 - obtuse angle
 - Ockham's/Occam's razor
 - odds and ends
 - oecumenical or general councils
 - on grounds of \mathcal{A}
 - on the basis of \mathcal{A}
 - on the ground of \mathcal{A}
 - on the occasion of \mathcal{A}
 - on the strength of \mathcal{A}

- on the whole vs. in particular
 one-sided surface
 operator and transformers
 opus operatorum
 oracles
 original sin/the Fall
 Origin of Species
 orthodoxy vs. heresies
 orthogonal complement
 oscillating series
 osculating plane
 ossified superstitions of ε - δ -ism
 outgoing subspace
 overdetermined system
 overlapping generations model
 overspill
 owing to \mathcal{A}

 packed beds
 packing and covering
 Palais–Smale condition
 Paley–Wiener Theorem
 panem et circenses
 papal infallibility
 papers by the author
 parabolas and parables
 Paradise Lost
 parallel and semiparallel strips
 parity transformation
 partial differentiation/
 function/sum
 partially ordered space
 particular solution
 partition of unity subordinate to
 a covering
 passage to the limit
 past cone
 path integral
 pattern and speech recognition

 payoff function
 peak function
 permutations and combinations
 phase shift
 pivot
 planar curvilinear coordinates
 plane domain
 plank
 plates, disks, and membranes
 pointed topological space
 Pointwise Ergodic Theorem
 polynomial in z
 polytopes and polyhedra
 poset
 posit/postulate \mathcal{A} /take \mathcal{A} for
 granted
 power of a with exponent x
 predecessors and successors
 predicate calculus
 prediction theory
 predictive distribution
 preferences in an economy
 prefix
 prenex normal form
 presheaf on a site
 price for an allocation
 primary ring/condition
 prime formula
 principle of least action/of
 optimality
 prodigal son and prodigy
 professorate vs. professorship
 prolate spheroidal coordinates
 proliferation of errors
 prolongation of a solution/
 of a geodesic
 proof tableau
 property held jointly by two sets

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- pull back and push forward
 - pullback of a differential form
 - pure point spectrum
 - purely discontinuous distribution
 - putative foundation of analysis
 - Pythagorean/Pythagoras
Theorem
 - quadratic form in
several/infinitely many
variables
 - quadratic programming/form
 - quadric cone
 - quadrivium
 - quark confinement
 - quermassintegral
 - queuing theory
 - quotient set of X by \sim
 - radioactive waste
 - random sample/variables of
mean 0 and variance 1
/walk (by spheres)
 - randomized test
 - range of a mapping/of statistic
data
 - rank of a matrix
 - rank-one operator
 - Rankine–Hygoniot relation
 - ranking and selection
 - ratio of the circumference of
a circle to its diameter
 - reals, rationals, naturals, and
complexes
 - reciprocal equation
 - reciprocity law/of annihilators
 - rectangular parallelepiped
 - rectifiable curve
 - rectilinear complex/propagation
 - recurrence formulas
 - recurrent point
 - recursive function
 - redshift
 - refutable formula
 - regularity up to the boundary
 - relatively norm compact set
 - relativity
 - relativization
 - remainder and residue
 - remainder in Taylor's formula
 - removable singularity
 - Renaissance
 - render assumptions/conditions/
circumstances
 - renumerate vs. remunerate
 - repair the omission
 - repeated integral
 - replacement
 - replica
 - replication
 - research into the unknown
 - residual spectrum
 - Residue Theorem
 - resolution of identity/
of singularities
 - resolvent equation/of a linear
operator
 - resource allocation
 - restatement of a claim
 - restricted holonomy group
 - résumé
 - retail and wholesale
 - revealed preference relation
 - Revelation of St. John
the Divine, the Apocalypse
 - reverse order
 - reversed process

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- review vs. revue
 - right angle
 - right-hand side
 - rigid body
 - rigidity theorem
 - robust estimation
 - roentgen or röntgen
 - rolling without slipping
 - rooms and passages
 - root subspace
 - roots of unity
 - rotation of \mathcal{A} /by/through $\pi/2$
 - about the axis x
 - roundoff error
 - routine considerations
 - Rybáiyát of Omar Khayyám
 - ruin probability
 - rule of inference
 - ruled surface
 - ruler and compass
 - saddle/jump/saltation point
 - sampling distribution
 - satisfaction and gratification
 - scalar product
 - scale parameter
 - scaling method/factor
 - scattered set
 - schism
 - schlieren method
 - scholar of the highest/middling
 - attainments
 - Schwarzschild radius
 - Scientia scientiarum
 - scratch hardness
 - screw dislocation/motion
 - Second coming
 - secondary diagonal
 - Selberg sieve
 - selection rule/function
 - sense-preserving map
 - separable space
 - separated uniform space
 - separation theorem/axioms
 - sequential decision rule
 - sequentially compact space
 - series-parallel connection
 - Sermon on the Mount
 - serving, full, or pure subgroup
 - sesquilinear form
 - set furnished with a metric
 - set-theoretic stance
 - shallow water wave
 - share set
 - sharp estimate
 - sheaf associated with a presheaf
 - sheaf of germs of smooth
 - functions
 - shear stress
 - sheets of a hyperboloid vs.
 - nappes of a cone
 - shift operator
 - shock wave
 - short exact sequence
 - shunt
 - side effects/conditions
 - sieve method
 - sign test
 - signed measure
 - simplex tableau
 - simulation and numerical
 - modeling
 - sine qua non
 - singleton
 - skew product/field
 - skimming the surface
 - skin-friction drag

slack variable
slant product
slender body theory
slice
sliding vector
slit domain
slot vs. slits
small sample
smashing/collapsing/shrinking
 a space to a point
smoothness required of
 a (boundaryless) manifold
socle of a module
Soddy and Fajans' rule
solid body
solubility
solution operator/
 by quadrature/to equations/
 in integers
solvability
solving a triangle
source coding theory
space of strain and stress
span of a set
specified heat capacity
sphere geometry
spherical geometry
spin
spin quantum number
spinor group
spline interpolation
square of side a
stance vs. stanza
steam point
stiffness ratio
stopping rule
straight angle
straightforward and tedious
 computations
strange attractor
stress
stretched string
strict implication/morphism
strictly convex function
strings and superstrings
strong convergence/dual space
strongly elliptic
 operator/exposed
 point/inaccessible cardinal
structure carried by a set
subnet
subnexus
sum of a series
summable by Abel's method
supplementary angle
surd
surface energy/tension
surgery obstructions
survey vs. review and revue
survival of the fittest
sweeping-out process
symmetry breaking
synchronous clocks
synergism
system of notations for ordinals
systems analysis/theory
syzygy theory
tail filter
taking limits, by passage to the
 limit, or by a limiting
 argument
tally with, agree with, and
 correspond to
tautochrone
tautology

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|---|---|
| tempered distribution | trellis code |
| term in predicate logic/
of a language/of a series | tribe |
| tertium non datur | trivium |
| tessellations and tilings | truncation function/error |
| test function | truth and satisfaction of intellect |
| the last term (in a (finite) series)
vs. the latest news | truth table |
| theorem of coding | tuning fork |
| theorem of Tauberian type | turn-pike theorem |
| Theorema Egregium | twin paradox |
| theory of errors | twisted and skew group rings |
| thermocouple | two-bin system |
| theta function | ubiquitous set |
| thick-film and thin-film circuits | ultimate boundedness |
| thickness of an oval | ultimate, penultimate, and
antepenultimate |
| three-body problem | ultranet |
| threshold Jacobi method | unbiasedness |
| tieset | uncertainty principle |
| tight family of measures | uncompleted vs. incomplete |
| tightness | uncountable set |
| time sharing | undefined concept |
| timelike curve | underflow |
| to and fro; neither and thither | underlying space |
| tolerance and confidence regions | undotted index |
| topology on/for X | unfolding |
| topos | unfortunate nomenclature |
| torquemeter | unicity/uniqueness theorem |
| torsion modules | unified field theorem |
| torus | uniformly most powerful test |
| totally bounded set | unilateral constraints |
| trace space | uniqueness theorem |
| transducer vs. transductor | unit ball/cell/cost |
| transfer principle | unity element and unitization |
| transient Levy process | universal cover vs. open covering |
| transverse foliation/
mass/vibrations | universal quantifier/set |
| trapezo-rhombic dodecahedron | unordered pair |
| | unsteady flow |

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- up to equivalence/isomorphism
 - upcrossings
 - uranium-lead dating
 - utility allocation
 - vague topology
 - vanishing cycle
 - variational principle
 - varieties of lattices and lattices
 - of varieties
 - vector-valued integral
 - vena contracta
 - vera causa
 - verbatim
 - versal unfolding
 - vertical angles
 - vice versa
 - videlicet
 - vinculum
 - virial expansion
 - virtual arithmetic genus/particle
 - viscosity
 - viscous and inviscid fluids
 - void set
 - voltage drop
 - ying hypotheses
 - waiting time
 - Walrasian equilibrium
 - warped product
 - wasan
 - water-coal slurry
 - wave-particle duality
 - wave propagation/steepness
 - wavelength and wavenumber
 - weak lacuna
 - weak-star topology
 - weakly compact set
 - web group
 - webbed space
 - well-formed formula
 - well-ordered set
 - well-posed problem
 - whence, hence, and from there
 - wild space
 - winding number
 - with recourse to \mathcal{A}
 - with the aim of \mathcal{A}
 - with the exception of \mathcal{A}
 - with the help of \mathcal{A} /by the aid of \mathcal{A}
 - with the intention of \mathcal{A}
 - with the notation of Chapter 1
 - with/in reference to \mathcal{A}
 - without loss of generality
 - word for word
 - Wronskian
 - X-ray microscopy
 - xerography
 - Yang–Mills gauge theory
 - yea and nay
 - yenri
 - Yukawa potential
 - Zeeman effect
 - Zermelo universe
 - zero-one laws
 - zillion
 - \top , verum
 - \perp , falsum
 - ... ellipsis dots/periods