

The Bliss Classification Bulletin

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F O R E W O R D

Most of this Bulletin consists of substantial additions to the BC in four technical fields, for the expansion of two of which (Electronics and Automatic Control) the Editor has received request. These additions take the form of four complete schedules, each providing detail almost totally absent so far in the BC.

It is our intention to provide in future Bulletins similar new and enlarged schedules for a wide variety of topics, with particular emphasis on those areas of the BC which have so far been most lacking in up-to-date detail, i. e., the physical sciences and technologies.

In the provision of these new schedules we are greatly indebted to the British National Bibliography from whose set of Supplementary Schedules (London, BNB, 1963) we are drawing most of them. These schedules have been developed by the BNB to supplement those areas of the Dewey Decimal Classification which are inadequate for specific classification of modern literature as encountered by BNB. The latter classifies and catalogues all current literature published in the U. K.

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(some 25,000 items annually at present) and it is emphasised here, lest it be thought that the detail provided is excessive, that the terms appearing in the Supplementary Schedules are all based firmly on

'literary warrant' in the sense that books specifically on all these subjects have actually appeared in the past decade.

Should any user of the BC find the detail more than he requires, he is under no compulsion to use it. This has always been the underlying argument -- and a perfectly valid one -- for providing detail in a classification. Those who want precision in their indexing can have it, those who do not, needn't bother. But the detail should be there, otherwise the first group can never be served adequately.

As subscribers to the BNB are aware, the classes of the supplementary schedules carry a notation of lower-case letter, marking them off clearly from the DDC class numbers. Generally speaking we will provide a new notation in order to fit each class as neatly as possible into the existing local situation in the BC. In the case of the Electronics schedule (BNZ) we have retained the BNB notation substantially as it is used in BNB (except that we use capitals instead of lower case, of course).

A brief explanation of the main features of these schedules is given below. Here, we wish to thank Mr. A. J. Wells, Editor of the BNB, for his generosity in allowing us to use the schedules and Mr. E. J. Coates (now Editor of the British Technology Index) and other members of the BNB staff who have been largely responsible for the

working out of the schedules.

Since the last Bulletin was published the following libraries have been reported as adopting the BC, and we are pleased to welcome them to the growing body of BC users and to invite them to contribute suggestions for the improvement of the system:

Bangor, Normal College (changing to BC).
Froebel Educational Institute, Grove House,
Roehampton Lane, London, S. W. 15
(changing to BC).
Institute of Education, University of Keele
(new library).
Malvern Girls' College, Malvern, Worcestershire
(changing to BC).
Milham Ford School, Oxford.
Royal Belfast Academical Institution, Belfast.
Sedgley Park Training College, Manchester.
University College, Oxford (changing to BC).
University of Lancaster (new library).
Whalley Range Grammar School for Girls,
Manchester, 16.

The working out of schedules for a School Edition of the BC is progressing well and serious thought is now necessary about ways and means of printing or otherwise reproducing it and distributing it. Any suggestions from BC users will be very welcome.

The new schedules

There are five distinct features of these to be noted:

1. They are completely faceted; i.e., the different facets, or categories of concepts, in the subject concerned have been clearly distinguished and only the 'elementary' terms in each facet are given. Compound classes (those reflecting more than one facet) are obtained by synthesis (or 'composite specification' as Bliss called it); e.g., in

DRS Oceanography a document on Measurement of surface currents is classified by taking Surface from the Part facet, Current from the Properties and Phenomena facet, and Measurement from the Operations facet, to give DRSYPG. Again, in URAB Automatic control, a document on Hydraulic servomechanisms is classified by taking Servomechanisms from the Types of Control System facet and Hydraulic from the Parts and Components facet (it implies the actuator) to give URASNS.

The principle of faceted classification is, of course, implicit in much of the BC and can be seen very clearly in the separation of the Systematic Schedules from the tables proper. Here, the principle of analysis for subsequent synthesis is made explicit throughout each schedule.

2. They each have a definite citation order; i. e., compound numbers are constructed according to a definite rule, which is that when the indexer is combining two terms, the one appearing later in the schedule is cited first; e. g., Transistor -- Circuits, not Circuits -- Transistors; or, Hydraulic -- Servomechanisms, not Servomechanisms -- Hydraulic.

The effect of this is to collect material where it generally will be most helpful; e. g., in Electronics and in Automatic Control the particular application is regarded as the primary facet. If any user prefers some other citation order, this may be achieved by combining in the order required (so long as it is done consistently), but he cannot expect the same notational convenience as when following the preferred order (for which the notation is especially designed). It is advisable

in such a case to link the part with a comma; e.g., BNZ is Electronics (BNZ constituting the 'base number' -- the part common to the whole class) BNZG is Circuits and BNZRS Transistors. Preferred citation order for a compound would be Transistors -- Circuits BNZRS; no linking device is required -- the letter(s) following the 'base number' are removed from the facet above and added straight onto the facet below. If however the opposite citation order is chosen (to give Circuits -- Transistors) it would be BNZG, RS.

3. They are 'inverted' schedules; i.e., the primary facet files after the secondary, tertiary facets, etc. This device secures a consistent order of general before special; e.g.

Circuits	(i.e., Circuits in general)
Transistors	(i.e., Transistors in general)
Transistor Circuits	

The subclass Transistor circuits is, of course, subordinate to both Circuits and to Transistors and here it follows both these containing heads. Were the schedule order not inverted (if the primary facet filed first, the secondary facet second, and so on) the following sequence would result:

Transistors
Transistor Circuits
Circuits

In this case, the subclass Transistor circuits does not follow, but precedes, the more general class Circuits. It is not claimed that an order of general before special is of crucial importance in a classification system, but Bliss certainly advocated the principle of progressive subordination and it seems to be widely expected by librarians and

users and it adds to the predictability of class location.

4. The notation is 'retroactive'; i.e., the class symbols have been allocated in such a way as to allow any class to be qualified by another class directly, without any notational link (such as a comma) so long as the correct citation order is observed -- i.e., the qualifying class is taken from above. An example is given in (2) above; another example is;

BNZ	Electronics
BNZM	Materials for circuits (divided by name, arranged alpha- betically)
BNZRY	Capacitors
BNZRYM	Materials
BNZRYM, Ce	Ceramic dielectric capacitors
BNZRYM, Pa	Paper dielectric capacitors

5. The notation is purely 'ordinal'; i.e., no attempt is made to convey relations between the classes symbolized by adding another digit for every step of division. A class which normally gets more literature than its theoretical containing head may even get a shorter number; e.g., BNZT Amplifiers is a subclass of BNZSZ Circuits by function.

It is emphasized here that all the features described above are perfectly consistent with the rest of the schedules and with Bliss's view of the needs of a bibliographic classification.

These additional points may be noted:

(a) Indentation is used to show subordination; although Bliss generally restricted this aid in the display of relationships to his synoptic tables preceding each class, it is a useful device, particularly

in view of the fact that the notation is non-hierarchical. For example, in the hierarchy

AMUJ	Electronic (computers)
AMUJP	Programming
AMUN	Digital
AMUP	Programming

AMUJP means Programming of electronic computers (all kinds) whereas AMUP means Programming of Digital computers.

(b) The first expanded class (2) accommodates some material which, although not very common, causes trouble when classifying by an 'aspect' system like the BC. For example the forms of presentation may themselves appear as subjects, as in the Bulletin of the British Institute of Recorded Sound, and this would go at 2U.

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ADDITIONS AND CORRECTIONS

1Z Insert: General knowledge and activity
Preferred in Class 2 (for libraries not using
 2 for Bibliology, etc.)

For subdivisions of this class, see next entry.

2	General knowledge and activity	Alternative is 1Z (for
2C	Controversies	libraries using 2 for
2D	Curiosities	Bibliology, etc.)
2F	Deceptions	
2H	Fallacies, Delusions	
2J	Mysteries	
2L	Scholarship and learning.	<u>See also</u> Education for culture JAK Renaissance Humanism J3F
2N	General organisation and activity	
2P	Communications,	Information theory (general) <u>See also</u> Information theory in Electrical Engineering BOAC
2PT	Time	
2PV	Images	
2Q	Cybernetics,	Control theory (General works only here; for Engineering aspects, <u>see</u> URAC)
2R	Recorded knowledge	
2S	Visual records	
2SF	Films	
2SFL	Loop films	
2SS	Strips	
2SV	Illustrations	
2SVP	Aerial photographs	
2T	Microtexts, microrecords,	
2TM	Microfilms	
2U	Sound records	
2UM	Magnetic	
2UT	Tape	

- AMU Delete existing subclasses and references and replace by:
- AMU Instruments for mathematical calculation,
Computing machines. See also Integraph ARK
- AMUC Analogue (alternative, not recommended, at ARK)
AMUD Digital
- AMUF Mechanical
AMUG Slide rule
AMUI Electromechanical
AMUJ Electronic, Automatic
AMUJP Programming
AMUL Analogue computers
AMUN Digital computers
AMUP Programming
AMUPC Analogue-digital conversion
AMUPO Automatic programming
AMUQ Individual standard programmes
(Algol, Fortran, etc., A/Z)
- AMUR Individual computers (A/Z) e.g.,
Atlas AMUR.A
- ARK Insert: Analogue computers (alternative; preferred at AMUC)
- BEJ Delete subheading 'Electronics' (line 2)
Add note: See also Electronics, Electronic Engineering BNZ
- BFYM Insert: Masers, Lasers
- BNZ Insert new schedule:
- BNZ Electronics, Electronic Engineering. See also Electronic
Theory BEJ
- FK Measurement
FN Resistance
FP Impedance
FS Current
FT Voltage
FXY Wave form
FXZ Frequency
FY Noise
G Circuits See also BKE
GG Mathematics, Divide like AM/ay e.g., GGRJ
Signal flow graphs (integral calculus)

BNZ Electronics ...

GH	Transmission lines
GK	Apparatus
GP	Testing
GR	Environmental testing
H	Faults
HP	Physical dimensions
J	Shape
JM	Film
K	Construction, Manufacture
KM	Forming
KN	Joining
KP	Brazing
KZ	Materials
M	Particular materials
	Elements, Inorganic compounds, inorganic binary alloys.
	Indicate elements by chemical symbols e.g., Silicon MSi
	Indicate compounds by chemical formula without subscript figures e.g., Sulphuric acid MHSO ₄ , Sulphurous acid MHSO ₃ .
	Note that the symbols for compounds mean all compounds of the elements quoted. Final specification will be by verbal feature.
	Indicate binary alloys by joining symbols for substances with the digit 9, e.g., Lead-tellurium alloy MPb9Te. When it is necessary to combine a material symbol with notation F-K the latter should be enclosed in parentheses.
M7	Organic compounds. Divide like CO-CR
M8	Other materials. Arrange alphabetically.
N	Components
NS	Embedment packages
P	Tubes
PN	Phenomena
PQ	Fittings
PQQ	Shields
PR	Electrodes
PRQ	Cathodes
PRR	Hot cathodes
PRS	Cold cathodes
PRT	Oxide-coated cathodes
PRU	Anodes
PRV	Grids
PRX	Tubes by number of electrodes
PRX2	Diodes

BNZ	Electronics ...
PS	Tubes by type
PSS	Gas discharge
PST	Arc. <u>See also</u> BNM
PSU	Glow. <u>See also</u> BNO
PT	Cathode ray tubes. <u>See also</u> BFU
PU	Storage tubes
PUY	Crossed-field tubes
PV	Magnetrons. <u>See also</u> BOW
PW	Resonant cavity magnetrons
Q	Photocells
QC	Photoconductive cells
CR	Photoemissive cells
QRS	Multiplier tubes
QRU	Image intensifiers
QS	X-ray tubes. <u>See also</u> BFT
R	Solid state devices
RQ	Semi-conductors. <u>See also</u> BFK
RR	Diodes
RS	Transistors
RSV	Junction transistors
RSY	Relays
RU	Magnetic and dielectric devices
RW	Conductors
RX	Insulation
RY	Capacitors
S	Resistors
SQ	Variable
SQV	Inductors
SQW	Cores
SR	Transformers
SS	Switches
SST	Wafer switches
ST	Power supply units
STT	Voltage regulators
STU	Corona discharge tubes
SU	Printed circuits
SV	Microminiature circuits
SZ	Circuits by function
T	Amplifiers
TV	Attenuators
TX	Convertors
TY	Waveform generators
TZ	Oscillators
U	Multivibrators
V	Rectifiers
VX	Time bases

BNZ	Electronics ...
VY	Pulse techniques
VZ	Very high frequency
W	Microwaves
WX	U. H. F.
WXQW	Klystrons
WY	S. H. F.
WZ	Applications
X	Measuring devices
XY	Control devices
Y	Electron microscopes. <u>See also BFR</u>
YX	Emission electron microscopes
YY	Electronic heating. <u>See also BNP</u>
YZ	Dielectric
YZX	Induction

BOAC Insert: Information theory. See also Information theory (general) 2P

DRS/DRT Delete and change to

DRS	Oceans and Seas, Oceanography, Oceanology
B	Operations
C	Equipment
CR	Radar
CT	Ultrasonic wave generators
DRSD	Vehicles
S	Ships
DRSE	Expeditions
DRSF	Observations
DRSG	Measurements
DRSH	Surveying
DRSI	Plotting
DRSJ	Sounding
DRSJL	Sea level datums
DRSJZ	Properties and Phenomena
DRSK	Physical
DRSL	Dimensions: depth, density
DRSM	Dynamic
DRSN	Waves
DRSO	Tides
DRSP	Currents
DRSR	Thermal
DRSS	Temperature

DRS	Oceans and Seas ...
DRST	Chemical
DRSTG	Analysis
DRSTZ	Determination of special materials
DRSV	Determination of metals
DRSW	Determination of non-metals
DRSX	Layers
DRSY	Surface
DRT	Sea bed. Submarine topography, Ocean floor
DRTZ	Coastal waters
JO	Add heading: Further Education (this should be part of the note on p. 6 of Bulletin Vol. II, No. 3)
UEC	Delete, and replace by: Automatic control devices <u>Alternative</u> , preferred at URAB
URAB	Insert following schedule:
URAB	Automatic control and control devices
URAC	Cybernetics
URAE	Mathematical theory. Divide like AM/AY
URAF	Properties and behaviour of systems. System engineering
URAFV	Static behaviour
URAFV	Stability
URAFX	Hunting
URAG	Dynamic behaviour
URAGK	Frequency response
URAGP	Transient response
URAGR	Reliability
URAGW	Open loop
URAH	Closed loop (systems with feedback)
URAHK	Feedback
URAHN	Simple
URAHQ	Meshed
URAHV	Positive
URAHV	Negative
URAK	Linear system
URAM	Non-linear system
URAMW	Parts, Components
URAMX	Gears
URAN	Actuator
URANQ	Mechanical
URANS	Hydraulic
URANT	Pneumatic

URAB	Automatic control and control devices ...
URANU	Electrical
URANV	Electronic
URAP	Amplifier
URAPR	Magnetic amplifiers
URAPT	Governor
URAPW	Types of control system
URAO	Proportional
URAOI	Derivative
URAOV	Integral
URART	Continuous systems
URARU	Discontinuous systems
URARW	Sampled-data
URARY	Regulators
URAS	Servomechanisms
URASW	Attributes, operations upon which control is exercised
URAT	Mechanical movement
URATU	Fluid level
URATV	Vacuum or pressure
URAU	Time
URAV	Electrical variation

A/Z Index

2	Activity and organisation, General	2N
	Aerial photographs (Visual records)	2SVP
	Communications (General organisation and activity)	2P
	Controversies (General knowledge)	2C
	Curiosities (General knowledge)	2D
	Cybernetics (General organisation and activity)	2Q
	Deceptions (General knowledge)	2F
	Delusions (General knowledge)	2H
	Fallacies (General knowledge)	2H
	Films (Visual records)	2SF
	General knowledge	2
	Illustrations (Visual records)	2SV
	Images (General organisation and activity)	2PV
	Information theory (General)	2P
	Knowledge and activity, General	2
	Learning and scholarship, General	2L
	Loop films (Visual records)	2SFL
	Magnetic sound records	2UM
	Microfilms (Visual records)	2TM
	Microtexts (Visual records)	2T
	Mysteries (General knowledge)	2J
	Organisation and activity, General	2N
	Photographs, Aerial (Visual records)	2SVP
	Recorded knowledge	2R
	Records, Visual	2S
	Scholarship and learning, General	2L
	Sound records	2U
	Tape, Magnetic (Sound records)	2UT
	Time (General organisation and activity)	2PT
	Visual records	2S
AMU	Analogue computers (Mathematics)	AMUC
	Analogue computers, Electronic (Mathematics)	AMUL
	Automatic computing machines (Mathematics)	AMUJ
	Automatic programming (Digital computers)	AMUPO
	Computers, Electronic (Mathematics)	AMUJ
	Conversion, Analogue-digital (Computer programming)	AMUPC
	Digital computers (Mathematics)	AMUD
	Digital computers, Electronic	AMUN
	Electromechanical computing machines	AMUI
	Electronic computers (Mathematics)	AMUJ
	Mechanical computing machines	AMUF

AMU	Programmes (Digital computers)	AMUQ
	Programming (Electronic computers)	AMUJP
	Programming (Digital computers)	AMUP
	Slide rules (Mathematics) change to:	AMUG
BFYM	Lasers	BFYM
	Masers	BFYM
BNZ	Amplifiers (Electronics)	BNZT
	Anodes (Electronics)	BNZPRU
	Arc (Gas discharge tubes, Electronics)	BNZPST
	Attenuators (Electronics)	BNZTV
	Brazing (Electronic circuits)	BNZKP
	Capacitors (Electronics)	BNZRY
	Cathode ray tubes (Electronics)	BNZPT
	Cathodes (Electronic components)	BNZPRO
	Circuits (Electronics)	BNZG
	Apparatus	BNZGK
	Construction	BNZK
	Materials	BNZM
	Cold cathodes (Electronic components)	BNZPRS
	Conductors (Electronics)	BNZRW
	Control devices, Electronic	BNZXY
	Convertors (Electronics)	BNZTX
	Cores (Electronics)	BNZSQW
	Corona discharge tubes (Electronics)	BNZSTU
	Crossed field tubes (Electronics)	BNZPUY
	Current (Electronics)	BNZFS
	Dielectric devices (Solid state devices, Electronics)	BNZRU
	Dielectric heating (Electronics)	BNZYZ
	Diodes (Electron tubes)	BNZPRX2
	Diodes (semi-conductors, Electronics)	BNZRR
	Electrodes (Electronic components)	BNZPR
	Electron microscope change to:	
	Electron microscope (Electronics)	BNZY
	Electron microscope (Photoelectricity)	BFR
	Electron tubes <u>change to:</u>	
	Electron tubes (Electronics)	BNZP
	Electron tubes (Radio engineering)	BOS
	Electronics <u>change to:</u>	
	Electronics (Technology)	BEJ
	Electronics (Theory)	BNZ
	Embedment packages (Electronics)	BNZNS
	Emission electron microscopes	BNZYX
	Faults (Circuits, Electronic)	BNZH
	Film circuits (Electronics)	BNZJM
	Frequency (Electronics)	BNZFXZ

BNZ	Gas discharge tubes (Electronics)	BNZPSS
	Grids (Electronics)	BNZPRV
	Hot cathodes (Electronic components)	BNZPRR
	Image intensifiers (Electronics)	BNZQRU
	Impedance (Electronics)	BNZFP
	Induction heating (Electronics)	BNZYZX
	Inductors (Electronics)	BNZSQV
	Insulation (Electronics)	BNZRX
	Joining (Electronic circuits)	BNZKN
	Junction transistors (Electronics)	BNZRSV
	Magnetic devices (Solid state devices, Electronics)	BNZRU
	Magnetrons (Electron tubes)	BNZPV
	Mathematics of electronic circuits	BNZGG
	Measurement (Electronics)	BNZFK
	Microminiature circuits (Electronics)	BNZSV
	Microscope, Electron (Electronics)	BNZY
	Multiplier tubes (Photoemissive cells)	BNZQR
	Multivibrators (Electronics)	BNZU
	Noise (Electronics)	BNZFY
	Oscillators (Electronics)	BNZTZ
	Oxide-coated cathodes (Electronics)	BNZPRT
	Photocells (Electronics)	BNZQ
	Photoconductive cells (Electronics)	BNZQQ
	Photoemissive cells (Electronics)	BNZQR
	Power supply units (Electronics)	BNZST
	Printed circuits (Electronics)	BNZSU
	Pulse techniques (Electronics)	BNZVY
	Rectifiers (Electronics)	BNZV
	Relays (Semi-conductors, Electronics)	BNZRSY
	Resistance (Electronics)	BNZFN
	Resistors (Electronics)	BNZS
	Resonant cavity magnetrons (Electron tubes)	BNZPW
	S.H.F. (Microwaves, Electronics)	BNZWY
	Semiconductors (Electronics)	BNZRQ
	Shape (Electronic circuits)	BNZJ
	Shields (Electron tubes)	BNZPQQ
	Solid state devices (Electronics)	BNZR
	Storage tubes (Cathode ray, Electronics)	BNZPT
	Super high frequency (Microwaves, Electronics)	BNZWY
	Switches (Electronics)	BNZSS
	Testing (Electronic circuits)	BNZGP
	Time bases (Electronics)	BNZVX
	Transformers (Electronics)	BNZSR
	Transistors (Electronics)	BNZRS
	Transmission lines (Electronic circuits)	BNZGH
	Tubes, Electron (Electronics)	BNZP
	U.H.F. (Microwaves, Electronics)	BNZWX
	Ultra high frequency (Microwaves, Electronics)	BNZWX

BNZ	V.H.F. (Electronics)	BNZVZ
	Variable resistors (Electronics)	BNZSQ
	Very high frequency (Electronics)	BNZVZ
	Voltage (Electronics)	BNZFT
	Voltage regulators (Power supply units, Electronics)	BNZSTT
	Wafer switches (Electronics)	BNZSST
	Waveform (Electronics)	BNZFXV
	Waveform generators (Electronics)	BNZTY
	X-ray tubes (Electronics)	BNZQS
BOAC	Information theory (Electrical communications)	BOAC
DRS/DRT		
	Chemical properties and phenomena (Oceanography)	DRST
	Coastal waters (Oceanography)	DRTZ
	Currents in oceans and seas <u>Change to</u>	DRSP
	Density of oceans and seas	DRSL
	Depth of oceans and seas	DRSL
	Layers in oceans and seas	DRSX
	Marine deposits ... <u>change to</u>	DRSV
	Marine formations ... <u>change to</u>	DRT
	Metal, Metals ... <u>Insert subheading:</u>	
	In oceans and seas	DRSW
	Oceanology, Oceanography <u>Insert subheadings:</u>	
	Chemical deposits, properties	DRSV
	Equipment	DRSC
	Expeditions	DRSE
	Measurements	DRSG
	Observations	DRSF
	Plotting	DRSI
	Properties and phenomena	DRSJZ
	Surface	DRSY
	Surveying	DRSH
	Vehicles	DRSD
	Radar (Equipment, Oceanography)	DRSCR
	Sea, Seas ...	
	Deposits in <u>change to</u>	DRSV
	Soundings in <u>change to</u>	DRSJ
	<u>Insert note:</u> for further subclasses, <u>see</u> Oceanology	
	Sea-bed (Oceanography)	DRT
	Sea-level data (Oceanography)	DRSJL

DRS/DRT

Ship, Ships ... <u>Insert subheading</u>	
Oceanography	DRSDS
Temperature of oceans and seas	DRST
Thermal properties and phenomena (Oceanography)	DRSS
Tides (Oceanography)	DRSO
(and delete existing entry Tide, Tides ... DRT)	
Waves (Oceanography)	DRSN

URAB/C

Actuators (Automatic control devices)	URAN
Amplifiers (Automatic control devices)	URAP
Automatic control and control devices	URAB
Closed loop automatic control systems	URAH
Continuous control systems, Automatic	URART
Control and control devices, Automatic	URAB
Cybernetics (Automatic control)	URAC
Derivative control systems, Automatic	URAQT
Discontinuous control systems, Automatic	URARU
Electrical actuators (Automatic control devices)	URANU
Electrical variation, Automatic control of	URAV
Electronic actuators (Automatic control devices)	URANV
Feedback (Automatic control)	URAHK
Fluid level, Automatic control of	URATU
Frequency response (Automatic control devices)	URAGK
Gears (Automatic control devices)	URAMX
Governors (Automatic control devices)	URAPT
Hunting (Automatic control devices)	URAFX
Hydraulic actuators (Automatic control devices)	URANS
Integral control systems, Automatic	URAQV
Linear systems (Automatic control)	URAK
Magnetic amplifiers (Automatic control devices)	URAPR
Mathematics of Automatic control	URAE
Mechanical actuators (Automatic control devices)	URANQ
Mechanical movement, Automatic control of	URAT
Meshed closed loop systems (Automatic control)	URAHQ
Negative closed loop systems (Automatic control)	URAHV
Non-linear systems (Automatic control)	URAM
Open loop systems (Automatic control)	URAGW
Pneumatic actuators (Automatic control devices)	URANT
Positive closed loop systems (Automatic control)	URAHT
Pressure, Automatic control of	URATV
Proportional control systems, Automatic	URAQ
Regulators (Automatic control systems)	URARY
Reliability (System engineering)	URAGR
Servomechanisms (Automatic control systems)	URAS
Simple closed loop systems (Automatic control)	URAHN

URAB/C

Stability (Automatic control systems)	URAFV
Static behaviour (Automatic control systems)	URAFV
System engineering	URAF
Time (Automatic control devices)	URAU
Transient response (Automatic control devices)	URAGP
Vacuums, Automatic control of	URATV