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NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS –
Z2S (page heading)

000 aa - ac
001 ad - af
002 ag - ai
003 aj - al
004 am - ao
005 ap - ar
006 as - ass
007 ast - au
008 av - ax
009 ay - az
010 ba - bc
011 bd - bf
012 bg - bi
013 bj - bl
014 bm - bo
015 bp - br
016 bs - bss
017 bst - bu
018 bv - bx
019 by - bz
020 ca - cc
021 cd - cf
022 cg - ci
023 cj - cl
024 cm - co
025 cp - cr
026 cs – css

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

027 cst - cu
028 cv - cx
029 cy - cz
030 da - dc
031 dd - df
032 dg - di
033 dj - dl
034 dm - do
035 dp - dr
036 ds - dss
037 dst - du
038 dv - dx
039 dy - dz
040 ea - ec
041 ed - ef
042 eg - ei
043 ej - el
044 em - eo
045 ep - er
046 es - ess
047 est - eu
048 ev - ex
049 ey - ez
050 fa - fc
051 fd - ff
052 fg - fi
053 fj – fl

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

054 fm - fo
055 fp - fr
056 fs - fss
057 fst - fu
058 fv - fx
059 fy - fz
060 ga - ge
061 gd - gf
062 gg - gi
063 gj - gl
064 gm - go
065 gp - gr
066 gs - gss
067 gst - gu
068 gv - gx
069 gy - gz
070 ha - hc
071 hd - hf
072 hg - hi
073 hj - hl
074 hm - ho
075 hp - hr
076 hs - hss
077 hst - hu
078 hv - hx
079 hy - hz
080 ia - ic

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

081 id - if
082 ig - ii
083 ij - il
084 im - io
085 ip - ir
086 is - iss
087 ist - iu
088 iv - ix
089 iy - iz
090 ja - jc
091 jd - jf
092 jg - ji
093 jj - jl
094 jm - jo
095 jp - jr
096 js - jss
097 jst - ju
098 jv - jx
099 jy - jz
100 ka - kc
101 kd - kf
102 kg - ki
103 kj - kl
104 km - ko
105 kp - kr
106 ks - kss
107 kst - ku

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

108 kv - kx
109 ky - kz
110 la - lc
111 ld - lf
112 lg - li
113 lj - ll
114 lm - lo
115 lp - lr
116 ls - lss
117 lst - lu
118 lv - lx
119 ly - lz
120 ma - mc
121 md - mf
122 mg - mi
123 mj - ml
124 mm - mo
125 mp - mr
126 ms - mss
127 mst - mu
128 mv - mx
129 my - mz
130 na - nc
131 nd - nf
132 ng - ni
133 nj - nl
134 nm - no

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

135 np - nr
136 ns - nsp
137 nst - nu
138 nv - nx
139 ny - nz
140 oa - oc
141 od - of
142 og - oi
143 oj - ol
144 om - oo
145 op - or
146 os - oss
147 ost - ou
148 ov - ox
149 oy - oz
150 pa - pc
151 pd - pf
152 pg - pi
153 pj - pl
154 pm - po
155 pp - pr
156 ps - pss
157 pst - pu
158 pv - px
159 py - pz
160 qa - qc
161 qd - qf

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

162 qg - qi
163 qj - ql
164 qm - qo
165 qp - qr
166 qs - qss
167 qst - qu
168 qv - qx
169 qy - qz
170 ra - rc
171 rd - rf
172 rg - ri
173 rj - rl
174 rm - ro
175 rp - rr
176 rs - rss
177 rst - ru
178 rv - rx
179 ry - rz
180 sa - scg
181 scha - sche
182 schd - schf
183 schg - schi
184 schj - schl
185 schm - scho
186 schp - schr
187 schs - schss
188 schst - schu

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

189 schv - schx
190 schy - schz
191 sd - sf
192 sg - si
193 sj - sl
194 sm - so
195 spa - spc
196 spd - spf
197 spg - spi
198 spj - spl
199 spm - spo
200 spp - spr
201 sps - spss
202 spst - spu
203 spv - spx
204 spy - spz
205 sq
206 sr
207 ss
208 sta - stc
209 std - stf
210 stg - sti
211 stj - stl
212 stm - sto
213 stp - str
214 sts - stss
215 stst - stu

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

216 stv - stz
217 su
218 sv - sx
219 sy - sz
220 ta - tc
221 td - tf
222 tg - ti
223 tj - tl
224 tm - to
225 tp - tr
226 ts - tss
227 tst - tu
228 tv - tx
229 ty - tz
230 ua - uc
231 ud - uf
232 ug - ui
233 uj - ul
234 um - uo
235 up - ur
236 us - uss
237 ust - uu
238 uv - ux
239 uy - uz
240 va - vc
241 vd - vf
242 vg - vi

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

243 vj - vl
244 vm - vo
245 vp - vr
246 vs - vss
247 vst - vu
248 vv - vx
249 vy - vz
250 wa - wc
251 wd - wf
252 wg - wi
253 wj - wl
254 wm - wo
255 wp - wr
256 ws - wss
257 wst - wu
258 wv - wx
259 wy - wz
260 xa - xc
261 xd - xf
262 xg - xi
263 xj - xl
264 xm - xo
265 xp - xr
266 xs - xss
267 xst - xu
268 xv - xx
269 xy - xz

270 ya - yc
271 yd - yf
272 yg - yi
273 yj - yl
274 ym - yo
275 yp - yr
276 ys - yss
277 yst - yu
278 yv - yx
279 yy - yz
280 za - zc
281 zd - zf
282 zg - zi
283 zj - zl
284 zm - zo
285 zp - zr
286 zs - zss
287 zst - zu
288 zv - zx
289 zy - zz

SA Review journals and periodicals

1000 - 1070 Review journals

- 1004 Advances in information processing in organizations
1010 *Akademiya Nauk SSSR: Vsesojuznii Institut Naucnoj i Techniceskoi Informacii*
1012 *Bulletin signaletique*
1013 Computer and information systems abstracts journal
1015 Contents of contemporary mathematical journals and new publications.
Later title: Current mathematical publications
1017 Current index to statistics
1018 *Extracta mathematicae*
1020 *Jahrbuch über die Fortschritte der Mathematik*
1023 Index of mathematical papers
1025 International bibliography on operations research, control theory, system science
1030 Mathematical reviews
1035 Mathematics Research Center <Madison>: Abstracts of Mathematics Research Center
1040 New Publications
1050 *Referativnyi zhurnal. Matematika*
1055 Progress in mathematics
1060 Progress of mathematics
1062 Reviews in Global Analysis
1064 Reviews in Mathematical Physics
1065 Reviews in number theory
1070 *Zentralblatt für Mathematik und ihre Grenzgebiete*
1075 Periodicals
For details of the notation see RVK Online – Information

SB General overviews

- 300** Language dictionaries for mathematics.
- 400** Specialised dictionaries for mathematics.
- 700** (Biographical-) bibliographical reference works.
- 750** Bibliographies of periodicals titles; compilations of abbreviations and citable titles of mathematical journals.
- 800** Introduction to the study of mathematics and to literature research in the field of mathematics.
- 820** Guidelines for writing articles and publishing contributions to the mathematical literature.
- 850** Other topics.

SC Encyclopaedias and handbooks

- 145 *Mathematik-Handbuch für Technik und Naturwissenschaft*
200 Bourbaki, Nicolas: *Eléments de mathématique*
250 Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences
270 CRC Concise encyclopedia of mathematics
300 Encyclopaedia of Mathematics
350 Encyclopedia of statistical sciences
400 *Enzyklopädie der mathematischen Wissenschaften*
450 *Grundzüge der Mathematik*
458 Handbook of applicable mathematics
460 Handbook of applied mathematics
464 Handbooks of Mathematics and Computational Science (Springer)
470 *Handbuch der Mathematik*. Ed. L. Kuipers
490 *Herder-Lexikon. Mathematik*
640 *Kleine Enzyklopädie Mathematik*
650 Korn, Granino A. and Theresa M. Korn: Mathematical handbook for scientists and engineers
652 *Lexikon der Mathematik*
655 *Meyers Handbuch über die Mathematik*
670 *Mathematik für die Praxis*

SD Conference reports and proceedings

*Arranged according to the conference year using the Cutter-Sanborn notation for the conference location;
e.g. a conference in the year 1960 held in Moscow has the signum SD 1960 M911*

1890 Conference year 1890
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2005 Conference year 2005
2006 Conference year 2006
2007 Conference year 2007
2008 Conference year 2008
2009 Conference year 2009

2010 Conference year 2010
2011 Conference year 2011
2012 Conference year 2012

SE *FESTSCHRIFTS*, MEMORIAL VOLUMES SE (page heading)

110 +Z2S *Festschriften*, memorial volumes

In alphabetical order under the name of the subject, according to the numerical keys and with the Cutter-Sanborn notation for the editor or publisher, e.g.: a Festschrift for Karl Weierstrass, Ed. H. Behnke, would have the signum SE 361 B419.

1000 – 9900 Collected works.

Ordered alphabetically with numbering at intervals and the year of publication of the first volume.

1000 – 1150 Authors A

- 1000 Abel, Niels Henrik
- 1005 Adams, Frank J.
- 1020 Ahlfors, Lars Valerian
- 1023 Albanese, Giacomo
- 1035 Alling, Norman L.
- 1060 Archimedes
- 1120 Artin, Emil
- 1140 Atiyah, Michael
- 1150 Auslander, Maurice

1170 - 1680 Authors B

- 1170 Babbage, Charles
- 1180 Banach, Stefan
- 1200 Barrow, Isaac
- 1220 Bernoulli, Daniel
- 1240 Bernoulli, Jean
- 1300 Bernoulli, Jacques
- 1360 Bianchi, Luigi
- 1420 Birkhoff, George David
- 1480 Bochner, Salomon
- 1540 Bohr, Harald
- 1580 Bolsev, Login Nikolaevic
- 1600 Bolzano, Bernhard
- 1655 Borel, Armand
- 1660 Borel, Emile
- 1665 Bott, Raoul
- 1670 Brauer, Richard
- 1680 Brouwer, L.E.Y., von

1720 - 2275 Authors C

- 1720 Caccioppoli, Renato
- 1780 Cantor, Georg
- 1840 Carathéodory, Constantin
- 1860 Carleman, Torsten
- 1900 Cartan, Elie
- 1905 Cartan, Henri
- 1960 Casorati, Felice
- 1970 Castelnuovo, Guido
- 2020 Cauchy, Augustin
- 2080 Cayley, Arthur
- 2140 Cebysev, Pafnutiy L'vovic
- 2200 Cesaro, Ernesto
- 2240 Chern, Shiing-Shen
- 2244 Chevalley, Claude
- 2250 Cipolla, Michele
- 2260 Clifford, William Kingdom
- 2267 Cox, David R.
born: 1924-; English mathematician.
- 2270 Cramér, Harald
- 2275 Cremona, Luigi

2290 - 2540 Authors D

- 2290 Davenport, Harold
- 2320 Dedekind, Richard
- 2380 Delsarte, Jean
- 2440 Denjoy, Arnaud

- 2442 Desargues, Gérard
2445 Dickson, Leonard Eugene
2500 Dini, Ulisse
2540 Dirichlet, Gustav Lejeune
- 2557 - 2620 *Authors E*
2557 Ehresmann, Charles
2560 Eisenstein, Gotthold
2565 Elgot, Calvin C.
2570 Enriques, Federigo
2610 Euclid
2620 Euler, Leonhard
- 2680 - 3040 *Authors F*
2680 Fejér, Leopold
2687 Fermat, Pierre
2710 Fisher, Ronald A.
2730 Fontaine, Jean-Marc
2740 Fourier, Jean-Baptiste-Joseph
2800 Frege, Gottlob
*Professor; German mathematician, logician and philosopher,
founder of modern logic; 1848 - 1925; born in Wismar, Germany.*
2860 Fresnel, Augustin
2920 Frobenius, Ferdinand Georg
2980 Fubini, Guido
3040 Fuchs, László
- 3095 - 3420 *Authors G*
3095 Gallarati, Dionisio
3100 Galois, Evariste
3160 Gauss, Carl Friedrich
3200 Gelfand, Izrael
3220 Gentzen, Gerhard
3280 Gevrey, Maurice
3290 Gibbs, Willard
3305 Goedel, Kurt
(see also [CI 2304](#))
3310 Gomes Teixeira, Francisco
3340 Grassmann, Hermann
3370 Grauert, Hans
3400 Green, George
3420 Greville, Thomas N.
3430 Grunsky, Helmut
- 3460 - 4180 *Authors H*
3460 Haar, Alfred
3520 Hadamard, Jacques
3535 Hahn, Hans
3550 Hall, Philipp
3560 Halmos, Paul R.
3580 Hamilton, Sir William Rowan
3640 Hardy, Godfrey Harold
3655 Harish-Chandra, Lachke
3660 Hasse, Helmut
3700 Hausdorff, Felix
3760 Hecke, Erich
3810 Herglotz, Gustav
3820 Hermite, Charles
3880 Hesse, Ludwig Otto
3940 Hilbert, David
4000 Hill, George William
4005 Hille, Einar
4020 Hirzebruch, Friedrich

- 4058 Hopf, Eberhard
 4060 Hopf, Heinz
 4080 Hsu, Pao-Lu
 4100 Hua, Loo-Keng
 4120 Humbert, Georges
 4180 Hurwitz, Adolf
- 4380 - 4460 *Authors I*
 4380 Ito, Kiyosi
 4460 Iwasawa, Kenkichi
- 4540 - 4660 *Authors J*
 4540 Jacobi, Karl Gustav Jakob
 4545 Jacobson, Nathan
 4560 Janiszewski, Zygmunt
 4580 John, Fritz
 4600 Jordan, Camille
 4660 Julia, Gaston
- 4670 - 4800 *Authors K*
 4670 Kac, Mark
 4675 Kaehler, Erich
 4720 Klein, Felix
 4730 Klingenberg, Wilhelm
 4750 Kodaira, Kunihiko
 4760 Kolmogorov, Andrej N.
 4780 Kronecker, Leopold
 4800 Kummer, Ernst Eduard
- 4840 - 5500 *Authors L*
 4839a La Vallée-Poussin, Charles-Jean de *cf.* LaVallée-Poussin, Charles-Jean de
 4840 Lagrange, Joseph-Louis de
 4900 Laguerre, Edmond-Nicolas
 4960 Lambert, Johann Heinrich
 4990 Landau, Edmund
 5000 Lang, Serge
 5020 Laplace, Pierre Simon de
 5030 LaVallée-Poussin, Charles-Jean de
 5040 Lax, Peter David
 5080 Lebesgue, Henri
 5140 Lefschetz, Solomon
 5200 Leibniz, Gottfried Wilhelm
 5200a Lejeune-Dirichlet, Gustav *cf.* Dirichlet, Gustav Lejeune
 5280 Leray, Jean
 5320 Levi, Eugenio Elia
 5321 Levinson, Norman
 5322 Levy, Paul
 5375 Lichnerowicz, André
 5380 Lie, Sophus
 5400 Littlewood, John Edensor
 5420 Ljunggren, Wilhelm
 5440 Lorentz, H. A.
 5500 Lukasiewicz, Jan
- 5530 - 5900 *Authors M*
 5530 McLane, Saunders
 5532 MacMahon, Percy A.
 5540 Magiros, Demetrios G.
 5550 Magnus, Wilhelm
 5555 Manin, Yuri I.
 5560 Marcinkiewicz, Józef
 5562 Marczewski, Edward

- 5570 Mazurkiewicz, Stefan
 5680 Miller, George Abram
 5685 Milnor, John
 5740 Minkowski, Hermann
 5800 Mises, Richard von
 5880 Moebius, August Ferdinand
 5884 Montel, Paul
 5888 Morse, Marston
 5900 Mostovski, Andrzej
- 5920 - 6068 *Authors N***
 5920 Nagell, Trygve
 5930 Neumann, Franz von
 5940 Neumann, John von
 6000 Newton, Sir Isaac
 6060 Neyman, Jerzy
 6064 Nielsen, Jakob
 6068 Nunes, Pedro
- 6070 – 6200 *Authors O***
 6070 Obreskov, Nikola
 6200 Ostrowski, Alexander M.
- 6420 - 6790 *Authors P***
 6420 Pantazi, Alexandrú
 6480 Peano, Guiseppe
 6540 Pearson, Egon Sharpe
 6570 Petrovskii, Ivan Georgevi
 6580 Piatetski-Shapiro, Ilya
 6600 Picard, Emile
 6640 Pierçe, Charles S.
 6660 Pincherle, Salvatore
 6720 Pluecker, Julius
 6780 Poincaré, Henri
 6785 Pol, Balthasar van der
 6790 Pólya, George
- 6980 – 7260 *Authors R***
 6980 Rademacher, Hans
 6985 Radon, Johann
 7015 Ramanujan Chidambaran, Padmanabhan
 7020 Ramanujan, Aiyangar Srinivasa
 7025 Rauch, Harry Ernest
 7035 Rényi, Alfred
 7060 Rham, Georges de
 7075 Ribenboim, Paulo
 7080 Ricci-Curbastro, Gregorio
 7140 Riemann, Bernhard
 7200 Riesz, Frigyes
 7220 Robbins, Herbert
 7230 Robinson, Abraham
 7240 Roquette, Peter
 7260 Ruffini, Paolo
- 7310 – 8255 *Authors S***
 7310 Safarevic, Igor R.
 7320 Salem, Raphael
 7322 Samuel, Pierre
 7370 Schauer, Juliusz Pavel
 7380 Schering, Ernst
 7440 Schlaefli, Ludwig
 7500 Schur, Issai

- 7560 Schwarz, Hermann *Amandus*
7740 Scorza, Gaetano
7800 Segre, Corrado
7820 Seki, Takakazu
7823 Selberg, Atle
7840 Serre, Jean-Pierre
7860 Severi, Francesco
7900 Shannon, Claude E.
7920 Siegel, Carl Ludwig
7940 Sierpinski, Wacław
7960 Silvester (Pope, II.)
7980 Skolem, Thoralf
8020 Smale, Stephen
8040 Smith, Henry John Stephen
8060 Sobolev, Sergei L.
Russian mathematician and engineer; professor; 06.10.1908-03.01.1989.
- 8100 Steiner, Jacob
8160 Stoilow, Simon
8220 Stokes, Sir George Gabriel
8244 Suzuki, Satoshi
8250 Sylvester, James Joseph
8255 Szegő, Gabor
- 8260 – 8465 *Authors T*
8260 Takagi, Teiji
8280 Tarski, Alfred
8280a Tchebychev cf. Cebysev
8400 Tedone, Orazio
8405 Teichmueller, Oswald
8408 Thirring, Walter E.
8410 Thue, Axel
8460 Tonelli, Leonida
8461 Torelli, Ruggiero
8465 Turing, Alan
- 8470 – 8470 *Authors U*
8470 Ulam, Stanislaw
- 8820 – 8940 *Authors V*
8820 Viete, François
8830 Vietoris, Leopold
Austrian mathematician; 1891-2002.
8850 Vinogradov, Ivan Matveevic
8880 Volterra, Vito
8940 Vranceanu, Gheorghe
- 9000 – 9460 *Authors W*
9000 Wald, Abraham
9060 Wallis, John
9080 Walsh, Joseph L.
9120 Weierstrass, Karl
9150 Weil, André
9160 Weinstein, Alexander
9180 Weyl, Hermann
9240 Whitehead, John Henry Constantine
9245 Whitney, Hassler
9290 Wielandt, Helmut
9300 Wiener, Norbert
9360 Wilkins, John
9420 Wilks, Samuel Stanley
9425 Witt, Ernst
9460 Wolfowitz, Jacob

- 9660 – 9780** *Authors Y*
9660 Yamabe, Hidehiko
9720 Yates, Frank
9755 Yoshida, Kôsaku
9760 Young, Alfred
9780 Yule, George Udny

- 9840 – 9860** *Authors Z*
9840 Zariski, Oscar
9860 Zermelo, Ernst
German mathematician.
9880 Zermelo, Ernst
9900 Others (CSN)

SG BIOGRAPHIES, HISTORY AND PHILOSOPHY OF MATHEMATICS SG
(page heading)

SG **Biographies, history and philosophy of mathematics**

100 - 399 **Biographies**

- 100** Collections of biographies and biographical material
110 +Z2S Individual biographies.
(In alphabetic order; following the number keys, see p. 6).

500 - 600 **History of mathematics**

(See also [NU 2000](#)).

- 500** **General overview**
 Articles on the history of mathematics
505 **Early cultures**
510 **Sumerians, Babylonians**
515 **China (including Tibet, Korea, Japan).**
520 **Egypt, Pharaonic dynasties**
525 **India**
530 **Greece, city-state cultures**
 (See also [FB 4100](#) f).
535 **Roman Empire**
 (See also [FB 4102](#)).
540 **Islamic cultures**
545 **Middle Ages**
550 **Pre-Columbian cultures: Mayas, Aztecs, Toltecs**
553 **Modern period in general: summary treatments**
555 **15th and 16th centuries, Renaissance**
560 **17th century**
565 **18th century**
570 **First half of the 19th century**
575 **Second half of the 19th century**
580 **20th century**
590 **History of specific problems**
600 **Classical articles (classics), not including collected works (*q.v.* under SF).**
700 **Philosophy and mathematics.**

SH Tables and formula compilations

- 100** Bibliographies of tables and formula compilations
- 300** Compilations of tables and formulas (three or more volumes).
- 500** Specific tables and/or formula compilations
- 700** Tables of logarithms

SI Multivolume series

- 109 - 805** Publications series in order of the volume numbering.
- 109** Institut für Mathematik <Berlin, East>: Reports, from 85.02 under the title: Karl-Weierstrass-Institut für Mathematik <Berlin, East>: Reports
- 110** Akademie der Wissenschaften der DDR, Institut für Mathematik, Berlin (East): Preprints
- 120** Algebra-Berichte. Mathematisches Institut <München>
- 130** American Mathematical Society: Memoirs of the American Mathematical Society
- 150** American Mathematical Society: Translations. Ser. 1
- 160** American Mathematical Society: Translations. Ser. 2
- 165** American Mathematical Society: University Lecture Series
- 169** Arbeitspapiere Mathematik. Teil A; Universität Bremen
- 170** Bayreuther Mathematische Schriften
- 171** Battelle Institute (Geneva): Advanced Studies Center: Mathematics Report
- 172** Beiträge zur Algebra und Geometrie
- 173** Beiträge zur Analysis
- 174** Beiträge zur Geometrie und Algebra. Technische Universität <Munich> / Fakultät für Mathematik und Informatik
- 175** Beiträge zur numerischen Mathematik
- 180** Bonner Mathematische Schriften
- 185** Cahiers Mathématiques. Université <Montpellier> / Département des Sciences Mathématiques
- 186** Université <Montpellier, II> / Département des Sciences Mathématiques: Prépublications
- 190** Carleton Mathematical Series. Carleton University <Ottawa> / Department of Mathematics
- 193** Centre de Recherches en Mathématiques Pures <Neuchâtel>: Publications. Ser. 1
- 195** National Science Foundation / Conference Board of the Mathematical Sciences: Regional Conference Series in Mathematics
- 196** National Science Foundation / Conference Board of the Mathematical Sciences: Regional Conference Series in Applied Mathematics
- 197** Forschungsschwerpunkt Komplexe Mannigfaltigkeiten: Schriftenreihe
- 198** Forschungszentrum (Graz) / Mathematisch-Statistische Sektion: Berichte
- 199** Universität <Berlin, West> / Fachbereich Mathematik: Reprints
- 200** Functiones et Approximatio: Commentarii Mathematici. Ed. J. Musilak, Posen (Poland).
- 210** Gesellschaft für Mathematik und Datenverarbeitung <Sankt Augustin>: GMD Berichte
- 213** Gesellschaft für Mathematik und Datenverarbeitung (Bonn): GMD Mitteilungen

- 216 Gesellschaft für Mathematik und Datenverarbeitung (Bonn): GMD Seminarberichte des Instituts für Theorie der Automaten und Schaltnetzwerke.
- 261 Hamburger mathematische Einzelschriften. Neue Folge. Universität <Hamburg> / Mathematisches Seminar
- 290 Institut de Recherche Mathématique Avancée (IRMA): “IRMA Lectures in Mathematics and Theoretical Physics“ (de Gruyter)
- 300 Institut des Hautes Études Scientifiques <Bures-sur-Yvette>: Publications mathématiques
- 303 Institut für Angewandte Analysis und Stochastik
- 304 Im Forschungsverbund Berlin
- 308 Institut Mittag-Leffler: Report
- 309 Institut für Didactics der Mathematik (Bielefeld): Materialien und Studien
- 310 Institut de Recherche Mathématique Avancée (Strasbourg Univ.): Publications
- 311 Institut Élie Cartan (Nancy): Institut Élie Cartan 1
- 312 Institut für Informatik und Praktische Mathematik (Kiel): Bericht
- 313 Institut für Mathematische Maschinen- und Datenverarbeitung (Erlangen-Nürnberg): Arbeiten des ...
- 314 MSJ Memoirs. Mathematical Society of Japan.
- 315 Mathematisch Centrum (Amsterdam); Afdeling Mathematische Besliskunde: BW
- 316 Mathematisch Centrum (Amsterdam); Afdeling Toegepaste Wiskunde
- 317 Mathematisch Centrum (Amsterdam); Afdeling Zuivere Wiskunde: ZW
- 318 Mathematisch Centrum (Amsterdam): Mathematical Centre tracts
- 320 London Mathematical Society: Lecture notes series
- 340 Mathematical Association of America: Studies in Mathematics
- 343 Mathematisches Forschungsinstitut Oberwolfach: Tagungsberichte
- 345 Universität <Gießen> / Mathematisches Seminar: Mitteilungen
- 346 Mathematisches Institut <Gießen, Univ.>: Vorlesungen
- 348 Mathematisches Institut <Tübingen> (Eds.): Semesterbericht functionalanalysis
- 350 Mémorial des sciences mathématiques
- 360 Moderne Mathematik in elementarer Darstellung
- 361 Osnabrücker Schriften zur Mathematik. Reihe D
- 362 Osnabrücker Schriften zur Mathematik. Reihe I
- 363 Osnabrücker Schriften zur Mathematik. Reihe M
- 364 Osnabrücker Schriften zur Mathematik. Reihe P
- 365 Osnabrücker Schriften zur Mathematik. Reihe U
- 366 Osnabrücker Schriften zur Mathematik. Reihe V
- 380 Queens Papers in Pure and Applied Mathematics.
- 385 Regensburger Mathematische Schriften
- 386 Regensburger Trichter
- 388 Rogaland Distriktshoegeskole (Stavanger): Arbeidspapirer
- 390 Dissertationes mathematicae. (Polska Akademia Nauk) Rozprawy matematyczne. Vol. 1-51 u.d.T.: Rozprawy ... Ab Vol. 52: Dissertations ...
- 393 Schriften zur Informatik und angewandten Mathematik (TH Aachen).
- 395 Mathematisches Institut <Münster, Westphalia>: Schriftenreihe. Series 2
- 398 Selecta statistica Canadiana. Mathematical statistics
- 400 Séminaire Bourbaki
- 410 Séminaire Choquet: Colloque Jacques Deny
- 420 Séminaire H. Cartan
- 430 Matematisk Institut <Århus>: Lecture notes series
- 431 Århus Universitet. Matematisk Institut: Various publications series
- 440 Séminaire Albert Châtelet et Paul Dubreil
- 460 Séminaire Claude Chevalley
- 480 Séminaire Choquet
- 500 Séminaire de Théorie des Nombres
- 520 Séminaire Paul Dubreil
- 540 Séminaire sur les Catégories, Dédié à Charles Ehresmann
- 558 Séminaire Schwartz
- 560 Séminaire Alexandre Grothendieck
- 580 Séminaire M. Janet
- 600 Séminaire P. Lelong
- 602 Séminaire Sophus Lie
- 603 Séminaire Lions
- 635 Séminaire Samuel

- 640 Séminaire Schwartz
- 650 Séminaire J.-P. Serre: Exposés de Séminaires 1950-
- 670 Conferenze del Seminario di Matematica dell'Univ. di Bari
- 688 Société Mathématique de France: Cours spécialisés
- 690 Société Mathématique de France: Mémoire
- 693 Société Mathématique de France: Panorames et Synthèses
- 695 Société Mathématique de France: Séminaires et Congrès
- 699 Steklov Institute of Mathematics (Leningrad): Works
- 700 Steklov Institute of Mathematics (Leningrad): Proceedings
- 701 Steklov Institute of Mathematics (Leningrad): Seminars in mathematics
- 702 Technische Hochschule Darmstadt. Fachbereich Mathematik: Preprints
- 703 Institut für Mathematik (München): TUM-M = Beitr. zur geometry u. Algebra
- 706 Universität (Berlin, East). Sektion Mathematik: Preprints
- 707 Universität (Berlin, East): Sektion Mathematik: Seminarberichte
- 710 Universität (Bielefeld). Institut für Mathemat. Wirtschaftsforschung: Arbeiten
- 711 Universität (Dortmund). Lehrstühle Mathematik III u. VIII: Ergebnisbericht
- 712 Universität (Duisburg). Fachbereich Mathematik: Schriftenreihe
- 713 Universität (Essen). Fachbereich Mathematik: Vorlesungen
- 714 Universität (Jena). Sektion Mathematik: Forschungsergebnisse
- 715 Universität (Kaiserslautern). Fachbereich Informatik: Interner Bericht
- 716 Universität (Kaiserslautern). Fachbereich Mathematik: Preprint
- 718 Universität (Münster). Math.-Nat. Fakultät: Dissertationen
- 719 Universität (Saarbrücken): Fachbereich Angewandte Mathematik u. Informatik: Technische Berichte des Fachbereichs ...
- 720 Séminaire d'Analyse Convexe. Published by: Univ. des Sciences et Techniques du Languedoc
- 721 Universität (Salzburg). Institut für Mathematik: Mathematische Berichte
- 740 Institut de Recherche Mathématique (Rennes, Univ.): Publications
- 750 University of California (Berkeley, California). Dept. of Industrial Engineering & Operational Research: Operations research center reports
- 768 Matemaattisten Tieteiden Laitos (Tampere): Report A
- 770 Matemaattisten Tieteiden Laitos (Tampere): Report C
- 780 Yale Mathematical Monographs
- 805 Contemporary Mathematics. Published by: American Mathematical Society
- 830 – 910 Publication series in alphabetic order by authors
- 830 Annals of mathematics studies. Published by Princeton University
- 832 Asterisque. Published by Société Mathématique de France
- 840 Lecture notes in Biomathematics
- 845 Lecture notes in control and informations sciences
- 850 Lecture notes in mathematics
- 853 Lecture notes in operations research and mathematical systems Vol. 1-15:
Lecture notes in operations research and mathematical economics
Vol. 16-: Lecture notes in economics and mathematical systems
- 855 Lecture notes in statistics (Dekker).
- 856 Lecture notes in statistics (Springer).
- 858 Mathematical Research (Akademie-Verlag).
- 860 Mathematics Lecture Series (Publish or Perish).
- 865 Mathématiques d'Orsay: Publications (Université de Paris, Faculté des Sciences d'Orsay).
- 866 Monografias de matematica (Inst. de Matematica Pura e Aplicada, Rio de Janeiro).
- 867 Notas de matematica (Inst. de Matematica Pura e Aplicada, Rio de Janeiro).
- 870 Mathematical Notes (Princeton University Press).
- 880 Research Notes in Mathematics (Pitman).
- 890 Lectures on mathematics and physics (Tata Inst. of Fundamental Research).
- 891 Mathematical pamphlets (Tata Institute of Fundamental Research).
- 910 Universität Augsburg. Mathematisches Institut. Preprints
- 990 Others (CSN + volume number)
(e.g. SI 990 U58 P8 : University of Potsdam, Institute for Mathematics. Preprint U58 University; P8 = Cutter abbreviation of the location).

SK Monographs

- 110 Comprehensive literature (articles on various sub-fields in one volume).**
- 130 Logic and fundamentals, metamathematics.**
Non-standard calculus (including fundamentals of calculus), structure of the number system, model theory, predicate calculus, proof theory, undecidability, double-valued and multivalued logic, formal languages, semantics and linguistics, Boolean algebras, abstract machines.
- 150 Set theory and lattice theory.**
*Ordered structures, axiomatic set theory, transfinite numbers, cardinal numbers, ordinal numbers, modular lattices, Boolean algebras and rings (ordered semigroups; rings; algebras; modules, insofar as their ordering is relevant).
 However: for geometric lattices cf. SK 170*
- 170 Combinatorics (classical).**
*Enumeration problems, theory of transversals, combinatorial inequalities and identities, generating functions, Ramsey theory, coding, blockplans.
 (See also SK 840, QH 422).*
- 180 Number theory**
*(analytic, elementary, additive, algebraic), stochastic number theory, quadratic forms, valuation, diophantine equations, automorphic forms, screening methods, (local) fields, Kummer theory, class field theory, zeta function.
 (See also SK 240).*
- 200 Algebra, general textbooks, Galois theory, field extension**
(elementary theory). However: for algebraic number theory, cf. SK 180; linear algebra cf. SK 220; ring theory cf. SK 230; algebraic geometry cf. SK 240; groups cf. SK 260; Lie groups, topological groups cf. SK 340; homological algebra cf. SK 320.
- 220 Linear algebra (including determinants, matrices and vectors).**
Analytic geometry see also SK 380.
- 230 Rings, fields, algebras, modules and generalisations,**
Polynomials, local rings, Noetherian rings, (Galois theory), theory of ideals, algebraic K theory, radicals, half-spaces, domain of positivity; for valuation theory see also SK 180. However: for Lie algebras cf. SK 340; for categories and functors, homological algebra cf. SK 320.
- 240 Algebraic geometry and algebraic functions;**
*Schemata, algebraic manifolds, projective manifolds; algebraic manifolds in real, closed and complex spaces; equivalence theory.
 Algebraic curves and surfaces, algebraic function fields (see also SK 320), arithmetic properties of manifolds. Criteria for rationality, algebraic groups (see also SK 260), Abelian manifolds.
 (See also SK 380).*
- 260 Group theory and its generalisations.**
*Theory of representations, semigroups, theory of invariants, homological methods in group theory, topological groups, Abelian groups, algebraic groups, simple groups, Sylow groups, monoid rings; Lie groups cf. SK 340.
 (See also SK 340).*
- 280 Topology in general; general textbooks.**
*Axiomatic and generalised topological spaces; weak convergence, functional spaces, uniform spaces, metric spaces, normalised spaces, Lindelöf's covering theorem, weak compactness, dimensional theory (see also SK 290) (fixed-point theorems). Filter theory (ultrafilters cf. SK 130). However: for ordered topological vector spaces and mappings cf. SK 290.
 (See also SK 290).*
- 290 Set-theoretical topology (special aspects).**
*Ordered topological vector spaces and mappings, dimensional theory.
 (See also SK 300).*
- 300 Algebraic topology**
*Cells, simplexes, simplicial complexes, CW complexes (sheaves), (topological) K theory, fixed-point theorems, dimensional theory, homotopy theory, fibre spaces (see also SK 350), embeddings, spectral sequences (see also SK 320), knot theory.
 (For algebraic K theory cf. SK 230).*

- 320 Homologic algebra, sheaf theory**
Categories, functors, algebraic structures, homology theory, co-homology theory, projective resolutions, injective resolutions, spectral sequences. étale cohomologies, categorical algebras.
 (See also [SK 230](#), [SK 340](#)).
- 340 Topological groups, algebraic topologies and Lie theory, Lie groups, Lie algebras.**
Topological semigroups and other generalisations of groups. Topological groups, local compact groups, Haar measures; measure and integration theory on LCA groups (see also [SK 450](#), [Fourier analysis on LCA groups](#)).
Homogeneous and symmetric spaces (see also [SK 350](#), [SK 370](#)).
 (See also [SK 430](#)).
- 350 Topology and geometry of manifolds, catastrophe theory.**
In particular differential topology, dynamical systems, geometric topology, differentiable manifolds, cobordisms, differentiable mappings, embeddings, immersions, diffeomorphisms (see also [SK 370](#)). Fibre bundles (see also [SK 300](#)) and vector-space bundles; characteristic classes, topology of vector and tensor fields (convolutions) (see also [SK 450](#), [SK 500](#)). Topology of homogeneous spaces (see also [SK 340](#), [SK 370](#)), symmetric spaces, covering spaces.
 (See also [SK 300](#)).
- 370 Differential geometry, tensor analysis.**
Minimal surfaces, affine and projective differential geometry, non-Euclidian differential geometry, spinor analysis, differentiable manifolds (general theory, definitions), Grassmann manifolds, homogeneous manifolds (see also [SK 340](#), [SK 350](#)), local Riemann geometry, Riemann manifolds, Riemann space, symmetric spaces (see also [SK 340](#), [SK 350](#)); submanifolds, isometric embeddings (see also [SK 350](#)); convex surfaces, Lorentz group and its generalisations, Hermitian and Kähler manifolds (see also [SK 780](#)); Finsler spaces and their generalisations; integral geometry.
Contextual relations.
 (See also [SK 350](#)).
- 380 Classical geometry.**
Fundamentals of geometry, analytic geometry, finite geometry, Euclidian geometry, classical algebraic geometry, trigonometry, planimetry, stereometry, affine geometry, descriptive geometry, projective geometry, non-Euclidian geometry, special geometries, convex fields, geometrical inequalities. However: for inequalities in general cf. [SK 490](#).
- 399 Introduction to higher mathematics;**
“college literature“, “precalculus mathematics.”
- 400 General textbooks on calculus**
- 420 Real functions.**
 Real functions see also [SK 780](#); monotonic functions, delta functions
 see also [SK 600](#); number-theoretical functions cf. [SK 180](#).
- 430 Measure and integration theory.**
 (See also [SK 340](#)).
- 450 Fourier analysis and integral transformations.**
Fourier series, Laplace transformations, nearly-periodic functions. Fourier transformations, harmonic analysis, Fourier analysis on LCA groups, convolution (theorem), factorisation.
- 470 Series, progressions, theory of approximations;**
orthogonal series, Hilbert spaces, delta functions, convolution, infinite products, infinite fractions, interpolation, iteration.
- 490 Other topics in calculus;**
inequalities, general differential inequalities.
- 500 Differential equations (ordinary and partial differential equations in one volume)**
 (subtopics cf. [SK 520](#), [SK 540](#), [SK 560](#), [SK 580](#)).
- 520 Ordinary differential equations.**
Solution by quadrature, existence and uniqueness, boundary and eigenvalue problems, parameter-dependent solutions, stability criteria, perturbation theory; dynamical systems and systems on manifolds; branching processes; differential equations in Banach spaces or in other abstract spaces. However: for differential inequalities cf. [SK 490](#); for elliptic differential equations cf. [SK 560](#).
 (See also [SK 350](#)).

- 540 Partial differential equations.**
Existence and uniqueness theorems, successive approximations, iteration. Cauchy-Kowalewski existence theorem, minimal surfaces, Plateau's problem, variational methods, analytic methods, boundary and eigenvalue problems, parameter-dependent solutions, singularities, stability criteria, perturbation theory, Schrödinger equations; general operator equations (see also SK 600, SK 620); equations in functional spaces. However, for differential inequalities cf. SK 490; for elliptic differential equations, cf. SK 560.
 (See also [SK 470](#)).
- 560 Linear partial second-order differential equations,**
(hyperbolic, parabolic, elliptic differential equations), potential theory, Laplace-Poisson differential equations.
 See also [SK 500](#), [SK 520](#); differential equations in mathematical physics;
 See also [SK 950](#)
- 580 Finite differences/finite difference equations and functional equations.**
However: for general numerical methods cf. SK 900, SK 910.
- 600 Functional analysis,**
(including distributions, Banach algebras). Topological vector spaces, vector lattices, normalised linear spaces, Banach spaces, Hilbert spaces (see also SK 470); other special spaces, spaces of continuous functions, spaces of differentiable and analytic functions, spaces of measurable functions, L_p spaces, Orlicz spaces, Sobolev spaces. Embedding theorems; distributions and generalised functions, derivatives and differentials of abstract spaces, algebraic topology, Banach algebras, rings and algebras with an involution, "star" algebras (for algebras in general cf. SK 230). Rings and algebras of operators. "C" algebras, operator algebras, "W*" algebras, group algebras, convolution algebras.*
 (See also [SK 450](#)).
 (For delta functions see also [SK 420](#), [SK 450](#), [SK 470](#)).
- 620 Operator theory,**
linear operators, differential and integral operators, nonlinear operators. Fixed-point theorems (see also SK 280), perturbation theory (see also SK 500, SK 520, SK 540).
 (See also [SK 600](#)).
- 640 Integral equations,**
linear integral equations, Volterra and Fredholm integral equations, eigenvalue problems, integral kernels.
 (See also [SK 600](#), [SK 620](#)).
- 660 Variational calculus.**
See also SK 870, linear and nonlinear optimisation.
- 680 Specific functions.**
(See also [SK 420](#), real functions; [SK 780](#), complex analysis of several variables).
- 700 General textbooks on complex analysis;**
for sub-fields cf. SK 750 and SK 780.
- 750 Specific chapters in the complex analysis of a complex variable.**
Riemann surfaces, uniformisation, elliptic functions, monogenic quasianalytic functions, automorphic functions, meromorphic functions, Dirichlet's boundary-value problem, functions of hypercomplex variables and generalised variables. Kernels and applications (see also SK 620, SK 640).
 (See also [SK 780](#)).
- 780 Complex analysis of several variables,**
(including real analytic and differentiable spaces). Domains of holomorphy, pseudo-convexity, complex symmetric spaces, Bergman kernel, analytic manifolds, analytic spaces, analytic sheaves and co-homology theory (see also SK 320); non-Archimedean complex analysis, Stein manifolds, Stein spaces, Kähler manifolds.
 (See also [SK 350](#)).
- 800 Probability theory.**
Fundamentals; combinatorial probability theory, probability theory on topological groups, geometrical probability, theory of distributions and characteristic functions, limit theorems, limiting distribution theorems, Gaussian error function.
 (See also [SK 450](#), [SK 470](#), [SK 600](#); [QH 170](#)).
- 810 Ergodic theory, dynamical systems**
 (See also [QH 170](#)).

- 820 Stochastic processes.**
Markovian processes, Markov chains, Martingales, Hunt process, diffusion processes, stochastic analysis, stochastic differential equations. Brownian motion, stochastic potential theory, branching processes, Galton-Watson processes, birth-death processes, stochastic models, stochastic geometry, search processes, point processes, stochastic fields, stochastic integrals, waiting queues, renewal processes, generalised processes (see also SK 800, SK 860; QH 170).
 (See also [QH 443](#)).
- 830 Statistical decision theory.**
Estimation methods, tests, asymptotes, Bayes method, multivariate analysis, mathematical methods in information theory, Bernoulli utility optimisation, vector-valued utility functions.
 (See also [QH 230](#) /233).
- 835 Probability distributions.**
Finite sample spaces and sampling methods, theory of distributions, parametric methods, non-parametric tests.
 (See also [SK 800](#); [QH 234](#) , [QH 235](#)).
- 840 Specific statistical methods.**
Regression analysis, cluster analysis, correlation analysis, factorial analysis, linear models, hierarchical models, test planning, optimal test plans, factorial design, statistical aspects of blockplans, pairwise and multiple comparisons.
 (See also [QH 234](#) , [QH 236](#)).
- 845 Sequential analysis, time series analysis.**
Sequential methods, time series, statistics of stochastic processes, predictability theory, prognosis models.
 (See also [QH 237](#)).
- 850 Applied statistics, tables.**
Reliability theory , quality control, econometry, biometry (see also [QH 251](#), [QH 300](#), [WC 7000](#) ff.).
 (See also [QH 441](#)).
- 860 Game theory;**
2-player zero-sum games, multiple-player games, differential games, cooperative and noncooperative games, market games. However: for strategies in chess, cf. [SN 500/590](#); for search problems, cf. [SK 820](#); for matrix games see also [SK 870](#). (See also [QH 430](#), game theory, in particular for economics applications).
- 870 Linear and nonlinear optimisation.**
Semi-infinite optimisation, fractional optimisation, global optimisation, vector optimisation, convex optimisation, parametric optimisation. However: for fixed-point algorithms, cf. [SK 910](#) and [SK 920](#); for integer optimisation, cf. [SK 890](#); for stochastic optimisation see also [SK 820](#), [SK 880](#), [SK 970](#); for general textbooks on optimisation see also [SK 970](#), [QH 470](#); for numerical methods in linear algebra, cf. [SK 915](#). (See also [QH 421](#), linear and nonlinear optimisation).
- 880 Control theory and stochastic control theory.**
Control theory, optimal (stochastic) control, dynamic optimisation/programming, stochastic dynamic optimisation/programming, feedback theory, information theory.
 (See also [QH 423](#), dynamic optimisation, control theory).
- 890 Integer programming and combinatorial optimisation, graph theory.**
Combinatorial and discrete optimisation/programming, mixed-integer programming, stochastic and nonlinear integer programming, polyhedral combinatorics, complexity theory, sequencing problems (scheduling, routing), graphs, digraphs, hypergraphs, network flows, matroids and independence systems; [QH 422](#), integer and combinatorial optimisation; [QH 450](#), graphs and networks in general. However: for precedence diagram methods, cf. [SK 970](#) and [QH 421](#). (See also [SK 170](#), combinatorial analysis (classical)).
- 900 Numerical mathematics.**
General textbooks; subtopics see [SK 910](#), [SK 950](#) (see also [SK 450](#), [SK 470](#), [QH 160](#)).
- 905 Numerical methods of interpolation and approximation,**
(including linear curve-fitting, trigonometric interpolation and Fourier transformation algorithms).

- 910 Numerical methods of convergence acceleration, iteration.**
Numerical differentiation and integration; numerical solution of equations; mathematical machines (e.g. integrating apparatus, differentiators); error estimation; curve fitting; graphical integration; finite-element methods.
- 915 Numerical methods in linear algebra,**
(systems of linear equations).
- 920 Numerical solution of operator equations.**
Numerical solutions of differential equations, integral equations and other operator equations. Theory of discretisation.
- 950 Mathematical methods in the natural sciences.**
Mathematics for physics, chemistry, biology (but for biometry, see SK 850, QH 252; for biomathematics see also WC 7000 ff.), medicine (see also XC 3100), engineering sciences (see also ZG 9120), and other natural sciences.
(See also VC 5200).
- 955 Computational physics.**
- 960 General systems theory.**
Systems theory for computer science, cf. ST 130.
(See also SK 880, QH 720, QP 350).
- 970 Operations Research.**
General textbooks on optimisation and operations research, applications of operations research, warehousing, renewal theory and replacement theory, location planning, precedence diagram methods (CPM, MPM), stochastic network planning, GERT network planning, (stochastic) scheduling problems, model building and simulation, queue theory, reliability theory; see also QH 400, operations research in general; QH 420, optimisation in general; QH 441, reliability theory; QH 443, queues. However, for linear and nonlinear optimisation cf. SK 870, QH 421; for integer programming cf. SK 890, QH 422; for game theory cf. SK 860, QH 430; for dynamic optimisation cf. SK 880, QH 423.
- 980 Mathematical economics, econometrics, theory of production.**
(See also QH 465, theory of production).
(See also QH 300, actuarial and finance mathematics, pension calculation).
- 990 Mathematics in other disciplines.**

SM Didactics of mathematics, schoolbooks

- 100 Elementary mathematics**
- 300 Mathematics for elementary and technical-school teachers, continuing teacher education.**
- 320 - 390 School books (and manuals for teachers and parents).**
 - 320 Summary works for all levels.**
 - 330 Upper forms (classes 11-12), adult education;**
 - 340 Middle forms (classes 7-10), professional schools;**
 - 370 Elementary schools;**
 - 390 Preschool teaching.**
- 600 – 890 Mathematics teaching:**
 - 600 General overview;**
 - 601 Goals for mathematics education (questions relevant to the curriculum);**
 - 603 Methods of mathematics teaching, proofs and errors in arithmetic courses;**
 - 605 Performance testing in mathematics education (questions relevant to evaluation);**
 - 607 Psychological-pedagogical reports; the teaching process;**
 - 609 Historical contributions, history of mathematics teaching.**
 - 610 Didactics of the natural numbers (number concept, computational tricks, number representations, calculations).**
 - 611 Didactics of fractional numbers.**
 - 613 Didactics of geometry.**
 - 615 Didactics of calculus.**
 - 617 Didactics of algebra (including linear algebra).**
 - 619 Didactics for other areas, Boolean algebra**
- 620 - 690 Didactics for specific school levels:**
 - 620 Didactics for high schools, teacher education;**
 - 630 Didactics for the upper forms;**
 - 640 Didactics for middle schools;**
 - 670 Didactics for elementary schools and special education;**
 - 690 Didactics for preschools.**
- 700 - 790 Didactics materials, working materials:**
 - 700 For all levels;**
 - 730 Upper forms (classes 11-12);**
 - 740 Middle forms (classes 7-10);**
 - 770 Elementary schools;**
 - 790 Preschool.**
- 800 – 890 Teaching programmes, curricula, learning programmes:**
 - 800 For all levels;**
 - 830 Upper forms (classes 11-12);**
 - 840 Middle forms (classes 7-10);**
 - 870 Elementary schools;**
 - 890 Preschool.**
- 905 - 930 Preparation for examinations:**
 - 905 Examinations preparation for middle-school leaving examinations;**
 - 910 Examinations preparation for high-school completion examinations;**
 - 920 Examinations preparation for lower-division college examinations;**
 - 930 Examinations preparation for upper-division college examinations (Bachelor, Master).**
 - 940 Mathematical prize competitions, International Mathematical Olympiad.**

SN MATHEMATICAL POPULARISATIONS, RECREATIONAL MATHEMATICS,
MATHEMATICAL GAMES, CHESS SN (page heading)

SN Mathematical popularisations, recreational mathematics, mathematical games, chess.

100 Mathematical popularisations, mathematics for non-mathematicians.

300 Recreational mathematics, mathematical games.

400 Mathematical models.

500 - 590 Chess

500 General textbooks

510 Opening strategies

515 Mid-game strategies and tactics, combinations.

520 Endgame theory

530 Chess problems

540 Chess and computers

550 History of chess

555 World histories (series with *indiv. signum*, volume numbers).

560 Compilations of games.

570 Tournaments, competitions (congresses) (year, CSN of the location of the tournament).

580 Games of individual chess masters, biographies of individual chess masters (CSN of the master).

590 Other topics.

600 Mathematical errors and curiosities (squaring the circle and claimed solutions to unsolved mathematical problems, etc.).

SP Reprints

In alphabetical order according to CSN. Reprints are not included in the catalogues, as a rule.

A

Abelian groups **SK 260**
Abelian manifolds **SK 240**
Abstract machines **SK 130**
Abstract spaces **SK 600**
Actuarial mathematics **SK 980**
Additive number theory **SK 180**
Affine differential geometry **SK 370**
Affine geometry **SK 380**
Algebra / textbooks **SK 200**
Algebraic curves **SK 240**
Algebraic function fields **SK 240**
Algebraic function fields **SK 320**
Algebraic functions **SK 240**
Algebraic geometry **SK 240**
Algebraic geometry **SK 380**
Algebraic groups **SK 240**
Algebraic groups **SK 260**
Algebraic K theory **SK 230**
Algebraic K theory **SK 300**
Algebraic manifolds **SK 240**
Algebraic number theory **SK 180**
Algebraic structures **SK 320**
Algebraic surfaces **SK 240**
Algebraic topology **SK 300**
Algebras **SK 230**
Analytic geometry **SK 380**
Analytic manifolds **SK 780**
Analytic number theory **SK 180**
Analytic sets **(SK 430)**
Analytic sheaves **SK 780**
Analytic spaces **SK 780**
Analytic spaces *see also* real analytic spaces
Applied statistics *cf.* statistics / applications
Approximation theory **SK 470**
Approximations **SK 540**
Approximations **SK 905**
Automorphic forms **SK 180**
Automorphic functions **SK 750**
Axiomatic set theory **SK 150**

B

Banach algebras **SK 600**
Banach spaces **SK 600**
Banach spaces / differential equations **SK 520**
Bayes decision theory **SK 830**
Bayes method **SK 830**
Bergman kernel **SK 780**
Biology / mathematics **SK 950**
Biometry **SK 850**
Birth-death process **SK 820**
Blockplans **SK 170**
Blockplans / statistics **SK 840**
Bolsev, Login Nikolaevic **SF 1580**
Boolean algebras **SK 130**
Boolean algebras **SK 150**
Boolean rings **SK 150**
Borel fields **(SK 430)**
Boundary-value problems **SK 520**
Branching processes **SK 520**

Branching processes **SK 820**
Branching processes *see also* stochastic processes
Brownian motion **SK 820**

C

C* algebras **SK 600**
Calculus **SK 130**
Calculus / fundamentals **SK 400**
Capacity (**SK 430**)
Cardinal numbers **SK 150**
Catastrophe theory **SK 350**
Categorical algebra *cf.* category theory
Categories (**SK 230**)
Categories **SK 320**
Category theory **SK 320**
Cauchy-Kowalewski existence theorem **SK 540**
Chebyshev function system (**SK 470**)
Chebyshev function system (**SK 680**)
Chebyshev polynomials (**SK 680**)
Cells **SK 300**
Characteristic classes **SK 350**
Characteristic functions **SK 800**
Chemistry / mathematics **SK 950**
Chess **SN 500 - SN 590**
Chess **SK 860**
Chess / endgame **SN 520**
Chess / mid-game **SN 515**
Chess / openings **SN 510**
Chevalley, Claude **SF 2244**
Class field theory **SK 180**
Cluster analysis **SK 840**
Cobordisms **SK 350**
Coding **SK 170**
Co-homology theory (**SK 300**)
Co-homology theory **SK 320**
Co-homology theory **SK 780**
Combinatorial optimisation **SK 890**
Combinatorial probability theory **SK 800**
Combinatorics **SK 170**
Complex analysis **SK 750**
Complex analysis / several variables **SK 780**
Complex analysis / textbooks **SK 700**
Complex space **SK 780**
Complex symmetric space **SK 780**
Complex variables **SK 750**
Complexity theory **SK 890**
Computational physics **SK 955**
Content (**SK 430**)
Control theory **SK 880**
Convergence **SK 280**
Convergence acceleration **SK 910**
Convergence / weak topology *cf.* weak convergence
Convex optimisation **SK 870**
Convex surfaces **SK 370**
Convolution **SK 450**
Convolution **SK 470**
Convolution **SK 600**
Convolution theorem **SK 450**
Cooperative games / game theory **SK 860**
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Cox, David R. **SF 2267**

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Fractional programming *cf.* fractional optimisation
Fredholm integral equations **SK 640**
Frege, Friedrich Ludwig Gottlob *cf.* Frege, Gottlob
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G

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I

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J

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K

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L

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M

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N

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O

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Poisson equation *cf.* Poisson differential equation
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Q

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R

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Stochastic integration *cf.* stochastic integral
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Stochastic process *see also* renewal process
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T

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U

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V

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W

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Z

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