

謹んで新年のお祝詞を申し上げます

昨年中は格別のお引き立てを頂き、誠に有難うございました。
本年も一層のご愛顧の程よろしくお願い申し上げます。
ここに“newsMATHEMATICA” No. 533 をお届けいたします。

2018年1月

株式会社マテマティカ

ARNOLD, VLADIMIR I.
Collected Works Volume IV
Singularities in Symplectic and
Contact Geometry 1980-1985
Ed. by Givental, A. B. et al



500 pp.

22,100

2月出版予定

SPRINGER

詳細は本文 12 ページをご覧ください。
ご注文は是非小社にお願い申し上げます。

ご挨拶

いつもありがとうございます。
この度、小社代表取締役 福本 理の辞任に伴い、後任として
福本 哲が就任いたしました。
略儀ながら書中をもちましてご挨拶申し上げます。
今後とも宜しくお願い申し上げます。
尚、銀行口座番号等の変更はございません。代表者変更の
為の必要な提出書類がございましたらお送りくださいませ。

株式会社マテマティカ
代表取締役 福本 哲

Contents

General & Reference.....	1
Algebra.....	4
Geometry & Topology.....	12
Analysis.....	15
Logic, Foundations & Discrete Mathematics.....	24
Probability & Statistics.....	26
Applied Mathematics.....	31
Computer Science.....	36

General & Reference

1	Andreescu, T. & Crisan, V.: 115 Trigonometry Problems from the AwesomeMath Summer Program. 2017. 200 pp. Hard. (XYZ Press)	9780999342800	10,250
2*	Bollman, M.: Mathematics of Keno and Lotteries. 336 pp. Hard. (Chapman and Hall/CRC)	5-2018	9781138723801
			26,450
3*	Bollman, M.: Mathematics of Keno and Lotteries. 336 pp. Paper. (Chapman and Hall/CRC)	5-2018	9781138723726
			10,800
4	Bozeman, B. & Youtie, J.: The Strength in Numbers. The New Science of Team Science. 2017. 229 pp. Hard. (Princeton UP)	9780691174068	4,800
5	Brady, K. & Winn, F.: Maths Skills for Success at University. 2017. 632 pp. Paper. (Oxford UP)	9780190302931	6,530
6*	Buchbinder, O. & Kuntze, S. (Ed.): Mathematics Teachers Engaging with Representations of Practice. A Dynamically Evolving Field. 148 pp. = ICME-13 Monographs . Hard. (Springer)	12-2017	9783319705934
			18,080
7	Calinger, R. S.: Leonhard Euler. Mathematical Genius in the Enlightenment. 2016. 669 pp. Hard. (Princeton UP)	9780691119274	8,630
8	Cheng, S.-Y. et al (Ed.): Notices of the International Congress of Chinese Mathematicians, Vol. 5, No. 2 (Dec. 2017). 2017. 104 pp. Paper. (International Press)	9781571463562	11,970
9*	Elliott, G. & Corey, D.: Build It. The Rebel Playbook for World Class Employee Engagement. 256 pp. Hard. (Wiley)	2-2018	9781119390053
			4,260
10	Euler, L. (Ed.): Correspondance. commercium Epistolicum, Vol. VII. Ed. by Bodenmann, S. et al. 2017. 621 pp. = Leonhard Euler, Opera Omnia / Series 4A. Vol. 7 . Hard. (Birkhauser)	9783764387433	45,590
11*	Friedman, M.: A History of Folding in Mathematics. Mathematizing the Margins. 470 pp. = Science Networks. Historical Studies. Vol. 59 . Hard. (Birkhauser)	5-2018	9783319724867
			22,100
12*	Hart, E. W. & Sandefur, J. (Ed.): Teaching and Learning Discrete Mathematics Worldwide: Curriculum and Research. 379 pp. = ICME-13 Monographs . Hard. (Springer)	1-2018	9783319703077
			22,100

13	Hiriart-Urruty, J.-B.: Mathematical Tapas, Vol. 2. (From Undergraduate to Graduate Level) 2017. 255 pp. = Springer Undergraduate Mathematics Series . Paper. (Springer)	9783319686301	7,030
14*	Jurdak, M. & Vithal, R. (Ed.): Sociopolitical Dimensions of Mathematics Education. From the Margin to Mainstream. 207 pp. = ICME-13 Monographs . Hard. (Springer) 2-2018	9783319726090	18,080
15*	Kerins, B. et al: Fractions, Tilings, and Geometry. 157 pp. = IAS/PCMI-The Teacher Program Series. Vol. 7 . Paper. (A.M.S.) 1-2018	9781470440640	4,959
16*	Kerins, B. et al: Probability and Games. 137 pp. = IAS/PCMI-The Teacher Program Series. Vol. 6 . Paper. (A.M.S.) 1-2018	9781470440633	4,959
17*	Kinnear, V. et al (Ed.): Forging Connections in Early Mathematics Teaching and Learning. 284 pp. = Early Mathematics Learning and Development . Hard. (Springer) 1-2018	9789811071515	18,080
18*	Liu, A. C.-F.: S.M.A.R.T. Circle Minicourses. 244 pp. = Springer Texts in Education . Paper. (Springer) 1-2018	9783319717425	15,470
19*	Maor, E.: Music by the Numbers. From Pythagoras to Schoenberg. 176 pp. Hard. (Princeton UP) 5-2018	9780691176901	3,410
20*	Montiel, M. & Peck, R. W.: Mathematical Music Theory. Algebraic, Geometric, Combinatorial, Topological and Applied Approaches to Understanding Musical Phenomena. 250 pp. Hard. (World Scientific) 11-2018	9789813235304	16,750
21*	Movshovitz-Hadar, N. (Ed.): K-12 Mathematics Education in Israel. Issues and Innovations. 400 pp. = Series on Mathematics Educations. Vol. 13 . Hard. (World Scientific) 3-2018	9789813231184	21,880
22	Owens, K.: History of Number. Evidence from Papua New Guinea and Oceania. 2018. 461 pp. = History of Mathematics Education . Hard. (Springer) 9783319454825		22,100
23*	Palmer, H. & Skott, J. (Ed.): Students' and Teachers' Values, Attitudes, Feelings and Beliefs in Mathematics Classrooms. Selected Papers from the 22nd MAVI Conference. 148 pp. Hard. (Springer) 1-2018	9783319702438	18,080
24	Pitici, M. (Ed.): The Best Writing on Mathematics 2017. 2018. 224 pp. Paper. (Princeton UP) 9780691178639		3,420

25*	Presmeg, N. et al (Ed.): Signs of Signification. Semiotics in Mathematics Education Research. 418 pp. = ICME-13 Monographs . Hard. (Springer)	1-2018	9783319702865	25,120
26*	Sedrakyan, H. & Sedrakyan, N.: The Stair-Step Approach in Mathematics. 498 pp. = Problem Books in Mathematics . Hard. (Springer)	1-2018	9783319706313	12,050
27	Sills, A. V.: An Invitation to the Rogers-Ramanujan Identities. 2018. 233 pp. Hard. (Chapman and Hall/CRC)		9781498745253	11,450
28*	Sonar, T.: The History of the Priority Dispute Between Newton and Leibniz. Mathematics in History and Culture. 480 pp. Hard. (Springer)	3-2018	9783319725611	22,100
29*	Stylianides, A. & Harel, G. (Ed.): Advances in mathematics education research on proof and proving. An international perspective. 251 pp. = ICME-13 Monographs . Hard. (Springer)	2-2018	9783319709956	18,080
30*	Taimina, D.: Crocheting Adventures with Hyperbolic Planes: Tactile Mathematics, Art and Craft for all to Explore. 256 pp. Hard. (CRC Press)	3-2018	9781138301153	8,970
31*	Wallwork, A.: Jokes. Have a Laugh and Improve Your English. 92 pp. = Easy English! Paper. (Springer)	1-2018	9783319672465	6,020
32*	Wallwork, A.: Test Your Personality. Have Fun and Learn Useful Phrases. 125 pp. = Easy English! Paper. (Springer)	1-2018	9783319672250	6,020
33*	Wallwork, A.: Top 50 Grammar Mistakes. How to Avoid Them. 143 pp. = Easy English! Paper. (Springer)	2-2018	9783319709833	6,020
34*	Wallwork, A.: Top 50 Vocabulary Mistakes. How to Avoid Them. 139 pp. = Easy English! Paper. (Springer)	2-2018	9783319709802	6,020
35*	Wallwork, A.: Word Games, Riddles and Logic Tests. Tax Your Brain and Boost Your English. 108 pp. = Easy English! Paper. (Springer)	1-2018	9783319672403	6,020
36*	Wallwork, A.: Wordsearches. Widen Your Vocabulary in English. 131 pp. = Easy English! Paper. (Springer)	1-2018	9783319672311	6,020
37	Wardhaugh, B.: The Correspondence of Charles Hutton. Mathematical Networks in Georgian Britain. 2017. 272 pp. Hard. (Oxford UP)		9780198805045	14,850

Algebra


38	Abrams, G. et al: Leavitt Path Algebras. 2017. 287 pp. =Lecture Notes in Mathematics. Vol. 2191. Paper. (Springer)	9781447173434	9,040
39	Andreescu, T. et al: Number Theory. Concepts and Problems. 2017. 686 pp. Hard. (XYZ Press)	9780988562202	13,665
40*	Andrews, G. E. & Garvan, F. (Ed.): Analytic Number Theory, Modular Forms and q-Hypergeometric Series. In Honor of Krishna Alladi's 60th Birthday, University of Florida, Gainesville, March 2016. 677 pp. =Springer Proceedings in Mathematics and Statistics. Vol. 221. Hard. (Springer)	2-2018 9783319683751	33,160
41	Aramayona, J. et al: Algorithmic and Geometric Topics Around Free Groups and Automorphisms. 2017. 149 pp. =Advanced Courses in Mathematics CRM Barcelona. Paper. (Birkhauser)	9783319609393	5,020
42*	Ashraf, M. et al (Ed.): Algebra and Its Applications. Proceedings of the International Conference held at Aligarh Muslim University, 2016. 312 pp. =de Gruyter Proceedings in Mathematics. Hard. (de Gruyter)	4-2018 9783110540925	24,100
43*	Badawi, A. et al (Ed.): Homological and Combinatorial Methods in Algebra. SAA 4, Ardabil, Iran, August 2016. 145 pp. =Springer Proceedings in Mathematics and Statistics. Vol. 228. Hard. (Springer)	4-2018 9783319741949	15,070
44*	Berthe, V. & Rigo, M. (Ed.): Sequences, Groups, and Number Theory. 582 pp. =Trends in Mathematics. Hard. (Springer)	12-2017 9783319691510	28,130
45*	Bockle, G. et al (Ed.): Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory. 690 pp. Hard. (Springer)	2-2018 9783319705651	26,120
46*	Bonnafe, C.: Kazhdan-Lusztig Cells with Unequal Parameters. 344 pp. =Algebra and Applications. Vol. 24. Hard. (Springer)	1-2018 9783319707358	22,100
47	Bos, J. W. & Lenstra, A. K. (Ed.): Topics in Computational Number Theory Inspired by Peter L. Montgomery. 2017. 266 pp. Hard. (Cambridge UP)	9781107109353	21,365

48 **Bryant, R. L. & Green, M. L. (Ed.):** Selected Works of Philip A. Griffiths with Commentary, Part 5. Differential Geometry and Hodge Theory (1983-2014). 2017. 489 pp. =**Collected Works. Vol. 26-1..** Hard. (A.M.S.)
9781470436568 21,366

49 **Bryant, R. L. & Green, M. L. (Ed.):** Selected Works of Philip A. Griffiths with Commentary, Part 6. Algebraic Cycles (2003-2007). 2017. 310 pp. =**Collected Works. Vol. 26-2..** Hard. (A.M.S.)
9781470436575 21,365

50* **Brzezinski, J.:** Galois Theory Through Exercises. 291 pp. =**Springer Undergraduate Mathematics Series.** Paper. (Springer)
2-2018 9783319723259 7,030

51* **CECCHERINI-SILBERSTEIN, T. et al:** **Discrete Harmonic Analysis**
Representations, Number Theory,
Expanders, and the Fourier Transform
=Cambridge Studies in Advanced Mathematics,
Vol. 172



450 pp. 13,678

This self-contained book introduces readers to discrete harmonic analysis with an emphasis on the Discrete Fourier Transform and the Fast Fourier Transform on finite groups and finite fields, as well as their noncommutative versions
(ISBN 978-1-107-18233-2)

6 月出版予定 **CAMBRIDGE UP**

52* **Chacholski, W. et al (Ed.):** Building Bridges Between Algebra and Topology. 240 pp. =**Advanced Courses in Mathematics CRM Barcelona.** Paper. (Birkhauser)
3-2018 9783319701561 6,020

53 **Clement, A. E. et al:** The Theory of Nilpotent Groups. 2017. 307 pp. Hard. (Birkhauser)
9783319662114 19,090

54 **Conca, A. et al (Ed.):** Homological and Computational Methods in Commutative Algebra. Dedicated to Winfried Bruns on the Occasion of his 70th Birthday. 2017. 256 pp. =**Springer INdAM Series. Vol. 20.** Hard. (Springer)
9783319619422 19,090

55*	Corvaja, P. & Zannier, U.: Applications of Diophantine Approximation to Integral Points and Transcendence. = Cambridge Tracts in Mathematics. Vol. 212. Hard. (Cambridge UP)	6-2018	9781108424943	21,375
56	Cuntz, J. et al: K-Theory for Group C*-Algebras and Semigroup C*-Algebras. 2017. 319 pp. = Oberwolfach Seminars. Vol. 47. Paper. (Birkhauser)		9783319599144	8,070
57	Cvetkovic Ilic, D. S. & Wei, Y.: Algebraic Properties of Generalized Inverses. 2017. 194 pp. = Developments in Mathematics. Vol. 52. Paper. (Springer)		9789811063480	10,090
58*	Daras, N. & Rassias, T. M. (Ed.): Modern Discrete Mathematics and Analysis. With Applications in Cryptography, Information Systems and Modeling. 490 pp. = Springer Optimization and Its Applications. Vol. 131. Hard. (Springer)	6-2018	9783319743240	25,120
59	Darby, A. et al (Ed.): Combinatorial and Toric Homotopy. Introductory Lectures. 2018. 435 pp. = Lecture Notes Series, Institute for Mathematical Sciences, National University of Singapore. Vol. 35. Hard. (World Scientific)		9789813226562	28,720
60	De Concini, C. & Procesi, C.: The Invariant Theory of Matrices. 2017. 151 pp. = University Lecture Series. Vol. 69. Paper. (A.M.S.)		9781470441876	7,520
61	Derksen, H. & Weyman, J.: An Introduction to Quiver Representations. 2017. 344 pp. = Graduate Studies in Mathematics. Vol. 184. Hard. (A.M.S.)		9781470425562	14,186
62	Eie, M. & Chang, S.-T.: A Course on Abstract Algebra. 2nd ed. 2018. 417 pp. Hard. (World Scientific)		9789813229624	15,040
63	Fontana, M. et al (Ed.): Rings, Polynomials, and Modules. 2017. 375 pp. Hard. (Springer)		9783319658728	22,100
64	Frigerio, R.: Bounded Cohomology of Discrete Groups. 2017. 193 pp. = Mathematical Surveys and Monographs. Vol. 227. Hard. (A.M.S.)		9781470441463	19,827

65* **FLEIG, P. et al:**

**Eisenstein Series and
Automorphic Representations**

with Applications in String Theory
=Cambridge Studies in Advanced Mathematics,
Vol. 176



575 pp.

16,243

This book covers more advanced topics such as spherical Hecke algebras and automorphic L-functions. Many of these mathematical results have natural interpretations in string theory, and so some basic concepts of string theory are introduced with an emphasis on connections with automorphic forms
(ISBN 978-1-107-18992-8)

6 月出版予定

CAMBRIDGE UP

66* **GARRETT, P.:**

**Modern Analysis of
Automorphic Forms By Example**

=Cambridge Studies in Advanced Mathematics,
Vol. 173



500 pp.

13,680

This book provides a self-contained introduction to the theory and application of automorphic forms, using examples to illustrate several critical analytical concepts surrounding and supporting the theory of automorphic forms
(ISBN 978-1-107-15400-1)

5 月出版予定

CAMBRIDGE UP

67* **Gorenstein, D. et al:** The Classification of the Finite Simple Groups, No. 7. Part III, Chapters 7-11: The Generic Case, Stages 3b and 4a. 344 pp. =**Mathematical Surveys and Monographs. Vol. 40, No. 7.** Hard. (A.M.S.)

3-2018

9780821840696

20,862

68* **Henderson, A. K.:** Algebraic Art. Mathematical Formalism and Victorian Culture. 256 pp. Hard. (Oxford UP)

3-2018

9780198809982

8,910

69 **Howe, E. W. et al (Ed.):** Algebraic Geometry for Coding Theory and Cryptography. IPAM, Los Angeles, CA, February 2016. 2017. 150 pp. =**Association for Women in Mathematics Series. Vol. 9.** Hard. (Springer)
9783319639307 24,230


70* **Koshy, T.:** Fibonacci and Lucas Numbers with Applications, Vol. 2. 2nd ed. 544 pp. =**Pure and Applied Mathematics.** Hard. (Wiley)
6-2018 9781118742082 21,370

71* **Kosyak, A. V.:** Regular, Quasiregular and Induced Representations of Infinite-dimensional Groups. 550 pp. =**EMS Tracts in Mathematics. Vol. 28.** Hard. (E.M.S.)
1-2018 9783037191811 17,680

72 **Kramer, J. & von Pippich, A.-M.:** From Natural Numbers to Quaternions. 2017. 285 pp. =**Springer Undergraduate Mathematics Series.** Paper. (Springer)
9783319694276 7,030

73 **Krantz, S. G.:** The Elements of Advanced Mathematics. 4th ed. 2018. 390 pp. =**Textbooks in Mathematics.** Hard. (Chapman and Hall/CRC)
9781138506312 16,030

74 **Kropholler, P. H. et al (Ed.):** Geometric and Cohomological Group Theory. 2018. 266 pp. =**London Mathematical Society Lecture Note Series. Vol. 444.** Paper. (Cambridge UP)
9781316623220 11,964

75* **LÖH, C.:** **Geometric Group Theory** 
An Introduction
=Universitext
389 pp. 13,460
Inspired by classical geometry, geometric group theory has in turn provided a variety of applications to geometry, topology, group theory, number theory and graph theory. This carefully written textbook provides a rigorous introduction to this rapidly evolving field whose methods have proven to be powerful tools in neighbouring fields such as geometric topology
(ISBN 978-3-319-72253-5)
1 月出版予定 **SPRINGER**

- 76* **Lario, J.-C. & Murty, V. K. (Ed.):** Number Theory Related to Modular Curves: Momose Memorial Volume. 228 pp.
=**Contemporary Mathematics. Vol. 701.** Paper. (A.M.S.)
2-2018 9781470419912 20,007

77* **LINCKELMANN, M.:**

**The Block Theory of
Finite Group Algebras, Vol. 1**

=London Mathematical Society Student Texts,
Vol. 91



Hard 19,665

Paper 11,113

This is a comprehensive introduction to the modular representation theory of finite groups, with an emphasis on block theory. Volume 1 introduces the broader context, starting with general properties of finite group algebras over commutative rings, moving on to some basics in character theory and the structure theory of algebras over complete discrete valuation rings
(ISBN 978-1-108-42591-9 Hard)
(ISBN 978-1-108-44183-4 Paper)

4 月出版予定

CAMBRIDGE UP

78* **LINCKELMANN, M.:**

**The Block Theory of
Finite Group Algebras, Vol. 2**

=London Mathematical Society Student Texts,
Vol. 92



Hard 19,665

Paper 11,113

In Volume 2, blocks of finite group algebras over complete p-local rings take centre stage, and many key results which have not appeared in a book before are treated in detail. In order to illustrate the wide range of techniques in block theory, the book concludes with chapters classifying the source algebras of blocks with cyclic and Klein four defect groups, and relating these classifications to the open conjectures that drive block theory
(ISBN 978-1-108-42590-2 Hard)
(ISBN 978-1-108-44180-3 Paper)

4 月出版予定

CAMBRIDGE UP


79*	Levin, E. & Lubinsky, D.: Bounds and Asymptotics for Orthogonal Polynomials for Varying Weights. 142 pp. = Springer Briefs in Mathematics . Paper. (Springer)	2-2018	9783319729466	10,040
80*	Li, K.: Group Schemes and Their Actions. Together with Tsinghua University Press. 512 pp. = de Gruyter Studies in Mathematics . Hard. (de Gruyter)	2-2019	9783110562408	22,700
81	Lutkebohmert, W.: Rigid Geometry of Curves and Their Jacobians. 2016. 386 pp. = Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge. Vol. 61 . Hard. (Springer)		9783319273693	19,090
82*	Maculan, M.: Diophantine applications of geometric invariant theory. 149 pp. = Memoires de la S.M.F. Vol. 152 . Paper. (S.M.F.)	11-2017	9782856298657	9,040
83	Matveev, A. O.: Farey Sequences. Duality and Maps Between Subsequences. 2017. 168 pp. Hard. (de Gruyter)		9783110546620	20,080
84*	Meckes, E. S. & Meckes, M. W.: Linear Algebra. 376 pp. = Cambridge Mathematical Textbooks . Hard. (Cambridge UP)	8-2018	9781107177901	11,968
85	Metzler, W. & Rosebrock, S. (Ed.): Advances in Two-Dimensional Homotopy and Combinatorial Group Theory. 2018. 179 pp. = London Mathematical Society Lecture Note Series. Vol. 446 . Paper. (Cambridge UP)		9781316600900	11,110
86*	Molev, A.: Sugawara Operators for Classical Lie Algebras. 305 pp. = Mathematical Surveys and Monographs. Vol. 229 . Hard. (A.M.S.)	3-2018	9781470436599	20,862
87*	Navarro, G.: Character Theory and the McKay Conjecture. pp. = Cambridge Studies in Advanced Mathematics. Vol. 175 . Hard. (Cambridge UP)	5-2018	9781108428446	11,110
88	Oguiso, K. et al (Ed.): Higher Dimensional Algebraic Geometry in Honour of Professor Yujiro Kawamata's Sixtieth Birthday. 2017. 437 pp. = Advanced Studies in Pure Mathematics. Vol. 74 . Hard. (M.S.J.)		9784864970464	8,334
89*	Palma, R.: Crossed Products by Hecke Pairs. 141 pp. = Memoirs. Vol. 1204 . Paper. (A.M.S.)	3-2018	9781470428099	13,728

- 90* **Praeger, C. E. & Schneider, C.:** Permutation Groups and Cartesian Decompositions. =**London Mathematical Society Lecture Note Series. Vol. 449.** Paper. (Cambridge UP)
6-2018 9780521675062 -----
- | | |
|-----|--|
| 91* | Qin, Z.: Hilbert Schemes of Points and Infinite Dimensional Lie Algebras. 336 pp. = Mathematical Surveys and Monographs. Vol. 228. Hard. (A.M.S.)
3-2018 9781470441883 20,862 |
|-----|--|
- | | |
|-----|---|
| 92* | Ribenboim, P.: Collected Works in Ordered Structures and Mathematical Logic, Volume 1. 580 pp. Hard. (Springer)
5-2018 9783319721408 32,150 |
|-----|---|
- | | |
|-----|---|
| 93* | Ribenboim, P.: Collected Works in Ordered Structures and Mathematical Logic, Volume 2. 630 pp. Hard. (Springer)
5-2018 9783319721439 32,150 |
|-----|---|
- 94 **Seberry, J.:** Orthogonal Designs. Hadamard Matrices, Quadratic Forms and Algebras. 2017. 453 pp. Hard. (Springer)
9783319590318 22,100
- 95 **Serre, J.-P.:** Lectures on $N_X(p)$. 2012. 163 pp. =**Research Notes in Mathematics. Vol. 11.** Hard. (A K Peters/CRC Press)
9781466501928 8,240
- 96 **Smith, G. G. & Sturmfels, B. (Ed.):** Combinatorial Algebraic Geometry. Selected papers from the 2016 Apprenticeship Program. 2017. 390 pp. =**Fields Institute Communications. Vol. 80.** Hard. (Springer)
9781493974856 22,100
- | | |
|----|---|
| 97 | Stewart, I. & Tall, D.: Algebraic Number Theory and Fermat's Last Theorem. 4th ed. 2016. 322 pp. Hard. (CRC Press)
9781498738392 12,130 |
|----|---|
- 98 **Stoimenow, A.:** Properties of Closed 3-Braids and Braid Representations of Links. 2017. 110 pp. =**Spriger Briefs in Mathematics.** Paper. (Springer)
9783319681481 10,040
- 99 **Walker, G. & Wood, R. M. W.:** Polynomials and the mod 2 Steenrod Algebra, Vol. 1: The Peterson Hit Problem. 2018. 346 pp. =**London Mathematical Society Lecture Note Series. Vol. 441.** Paper. (Cambridge UP)
9781108414487 16,921
- 100 **Walker, G. & Wood, R. M. W.:** Polynomials and the mod 2 Steenrod Algebra, Vol. 2: Representations of $GL(n, F_2)$. 2018. 355 pp. =**London Mathematical Society Lecture Note Series. Vol. 442.** Paper. (Cambridge UP)
9781108414456 16,921

101	Wendland, H.: Numerical Linear Algebra. An Introduction. 2018. 408 pp. = Cambridge Texts in Applied Mathematics . Hard. (Cambridge UP)	9781107147133	17,090
102*	Wood, D. R. et al (Ed.): 2016 MATRIX Annals. 657 pp. = MATRIX Book Series. Vol. 1. Hard. (Springer) 2-2018	9783319722986	26,120
103	Xu, X.: Representations of Lie Algebras and Partial Differential Equations. 2017. 620 pp. Hard. (Springer)	9789811063909	25,990
104*	Zakharov, V. K. & Rodionov, T. V.: Sets, Functions, Measures, Vol. 1. Fundamentals of Set and Number Theory. 400 pp. = de Gruyter Studies in Mathematics. Vol. 68/1. Hard. (de Gruyter) 1-2018	9783110550085	24,100
105	Zhang, X.-D.: Matrix Analysis and Applications. 2017. 723 pp. Hard. (Cambridge UP)	9781108417419	12,823

Geometry & Topology

106	Angella, D. et al (Ed.): Complex and Symplectic Geometry. 2017. 262 pp. = Springer INdAM Series. Vol. 21. Hard. (Springer)	9783319629131	18,990
-----	--	---------------	--------

<p>107* ARNOLD, VLADIMIR I. Collected Works Volume IV Singularities in Symplectic and Contact Geometry 1980-1985 Ed. by Givental, A. B. et al</p> <p style="text-align: right;">500 pp. 22,100</p> <p>Volume IV of the Collected Works of V.I. Arnold includes papers written mostly during the period from 1980 to 1985. Arnold's work of this period is so multifaceted that it is almost impossible to give a single unifying theme for it. It ranges from properties of integral convex polygons to the large-scale structure of the Universe (ISBN 978-3-662-56188-1)</p> <p style="text-align: center;">2 月出版予定</p>	
SPRINGER	

108*	Araujo dos Santos, R. N. et al (Ed.): Singularities and Foliations. Geometry, Topology and Applications. BBMS 2/NBMS 3, Salvador, Brazil, 2015. 350 pp. = Springer Proceedings in Mathematics and Statistics. Vol. 222. Hard. (Springer)	3-2018	9783319736389	22,100
109*	Bianchi, G. et al (Ed.): Analytic Aspects of Convexity. 150 pp. = Springer INdAM Series. Vol. 25. Hard. (Springer)	2-2018	9783319718330	15,470
110*	Biedermann, G. et al: The realization space of an unstable coalgebra. 148 pp. = Asterisque. Vol. 393. Paper. (S.M.F.)	1-2018	9782856298688	8,240
111*	Booss-Bavnbek, B. & Zhu, C.: The Maslov Index in Symplectic Banach Spaces. 123 pp. = Memoirs. Vol. 1201. Paper. (A.M.S.)	3-2018	9781470428006	13,728
112*	Bunge, M. C. et al (Ed.): Synthetic Differential Topology. = London Mathematical Society Lecture Note Series. Vol. 448. Paper. (Cambridge UP)	4-2018	9781108447232	13,680
113	Cannon, J. W.: Geometry of Lengths, Areas, and Volumes. Two-Dimensional Spaces, Volume 1. 2017. 119 pp. Hard. (A.M.S.)		9781470437145	8,375
114	Cannon, J. W.: Non-Euclidean Geometry and Curvature. Two-Dimensional Spaces, Volume 3. 2017. 105 pp. Hard. (A.M.S.)		9781470437169	8,375
115	Chiossi, S. G. et al (Ed.): Special Metrics and Group Actions in Geometry. 2017. 338 pp. = Springer INdAM Series. Vol. 23. Hard. (Springer)		9783319675183	19,090
116*	Crabb, M. & Ranicki, A.: The Geometric Hopf Invariant and Surgery Theory. 397 pp. = Springer Monographs in Mathematics. Hard. (Springer)	1-2018	9783319713052	22,100
117	Davis, M. W.: The Geometry and Topology of Coxeter Groups. 2008. 584 pp. = London Mathematical Society Monographs. Vol. 32. Hard. (Princeton UP)		9780691131382	19,120
118*	Frauenfelder, U. & van Koert, O.: The Restricted Three Body Problem and Holomorphic Curves. 400 pp. = Pathways in Mathematics. Hard. (Birkhauser)	9-2018	9783319722771	22,100

119	Girouard, A. et al (Ed.): Geometric and Computational Spectral Theory. 2017. 284 pp. = Contemporary Mathematics. Vol. 700. Paper. (A.M.S.)	9781470426651	18,972	
120*	Hernandez-Lamoneda, L. et al (Ed.): Geometrical Themes Inspired by the N-body Problem. 126 pp. = Lecture Notes in Mathematics. Vol. 2204. Paper. (Springer)	2-2018	9783319714271	7,030
121	Jost, J.: Riemannian Geometry and Geometric Analysis. 7th ed. 2017. 697 pp. = Universitext. Paper. (Springer)	9783319618593	15,990	
122	LaFountain, D. J. & Menasco, W. W.: Braid Foliations in Low-Dimensional Topology. 2017. 289 pp. = Graduate Studies in Mathematics. Vol. 185. Hard. (A.M.S.)	9781470436605	14,186	
123	Landsberg, J. M.: Geometry and Complexity Theory. 2017. 339 pp. = Cambridge Studies in Advanced Mathematics. Vol. 169. Hard. (Cambridge UP)	9781107199231	11,108	
124	Li, S. et al (Ed.): String-Math 2015. 2017. 297 pp. = Proceedings of Symposia in Pure Mathematics. Vol. 96. Hard. (A.M.S.)	9781470429515	21,536	
125*	Manturov, V. & Nikonov, I. M. (Ed.): Knot Theory. 2nd ed. 528 pp. Hard. (Chapman and Hall/CRC)	3-2018	9781138561243	23,000
126*	Nguyen, H. V. H. & Schwartz, L. (Ed.): Algebraic Topology. VIASM 2012 - 2015. 180 pp. = Lecture Notes in Mathematics. Vol. 2194. Paper. (Springer)	1-2018	9783319694337	7,030
127	Nikolaev, I. V.: Noncommutative Geometry. A Functional Approach. 2017. 263 pp. = de Gruyter Studies in Mathematics. Vol. 66. Hard. (de Gruyter)	9783110543179	20,080	
128	Nosaka, T.: Quandles and Topological Pairs. Symmetry, Knots, and Cohomology. 2017. 136 pp. = Springer Briefs in Mathematics. Paper. (Springer)	9789811067921	10,040	
129	オスターマン, A. & ヴァンナー, G.: 幾何教程 下. 蟹江 幸博 訳. 2017. 350 pp. Paper. (丸善出版)	9784621302125	3,900	
130	Riegler, A. et al (Ed.): New Horizons for Second-Order Cybernetics. 2018. 388 pp. = Series on Knots and Everything. Vol. 60. Hard. (World Scientific)	9789813226258	28,720	

131*	Schmidt, G. & Winter, M.: Relational Topology. 180 pp. =Lecture Notes in Mathematics. Vol. 2208. Paper. (Springer)	5-2018	9783319744506	7,030
132	梅原 雅顕 et al: 特異点をもつ曲線と曲面の微分幾何学. 2017. 319 pp. =現代数学シリーズ. Vol. 19. Paper. (丸善出版)		9784621302156	4,800
133*	Urakawa, H.: Geometry of Biharmonic Mappings. Differential Geometry of Variational Methods. 300 pp. Hard. (World Scientific)	8-2018	9789813236394	16,750
134*	Wichmann, B. & Wade, D.: Islamic Design: a Mathematical Approach. 225 pp. =Mathematics and the Built Environment. Vol. 2. Hard. (Birkhauser)	1-2018	9783319699769	19,090
135*	Xin, Y.: Minimal Submanifolds and Related Topics. 2nd ed. 380 pp. =Nankai Tracts in Mathematics. Hard. (World Scientific)	8-2018	9789813236059	21,880

Analysis

136	Agarwal, R. et al: Non-Instantaneous Impulses in Differential Equations. 2017. 251 pp. Hard. (Springer)		9783319663838	19,180
137*	Agranovsky, M. et al (Ed.): Complex Analysis and Dynamical Systems. New Trends and Open Problems. 310 pp. =Trends in Mathematics. Hard. (Birkhauser)	1-2018	9783319701530	24,110
138	Agranovsky, M. L. et al (Ed.): Complex Analysis and Dynamical Systems VII. 2017. 293 pp. =Contemporary Mathematics. Vol. 699. Paper. (A.M.S.)		9781470429614	18,972
139*	Alpay, D. & Kirstein, B. (Ed.): Indefinite Inner Product Spaces, Schur Analysis, and Differential Equations. A Volume Dedicated to Heinz Langer. 530 pp. =Operator Theory. Vol. 263. Hard. (Birkhauser)	5-2018	9783319688480	22,100
140	Ammari, K. & Gerbi, S. (Ed.): Evolution Equations. Long Time Behavior and Control. 2018. 194 pp. =London Mathematical Society Lecture Note Series. Vol. 439. Paper. (Cambridge UP)		9781108412308	13,408

141* **ANDRÉ, C. et al (Eds.):**

Operator Theory, Operator Algebras, and Matrix Theory

=Operator Theory, Vol. 267

375 pp.

22,100

This book consists of invited survey articles and research papers in the scientific areas of the International Workshop on Operator Algebras, Operator Theory and Applications which was held in Lisbon in July 2016 (ISBN 978-3-319-72448-5)



5 月出版予定

BIRKHÄUSER

142* **Arov, D. Z. & Dym, H.:** Multivariate Prediction, de Branges Spaces, and Related Extension and Inverse Problems.

460 pp. =**Operator Theory. Vol. 266.** Hard. (Birkhauser)

6-2018

9783319702612

22,100

143* **Baricz, A. et al:** Series of Bessel and Kummer-Type Functions. 200 pp. =**Lecture Notes in Mathematics. Vol. 2207.** Paper. (Springer)

4-2018

9783319743493

7,030

144* **Barreira, L.:** Lyapunov Exponents. 260 pp. Hard. (Birkhauser)

2-2018

9783319712604

19,090

145 **Bartusek, M. & Graef, J. R.:** The Strong Nonlinear Limit-Point/Limit-Circle Problem. 2018. 312 pp.

=**Trends in Abstract and Applied Analysis. Vol. 6.** Hard. (World Scientific)

9789813226371

20,170

146 **Bonk, M. & Meyer, D.:** Expanding Thurston Maps. 2017. 478 pp. =**Mathematical Surveys and Monographs. Vol. 225.** Hard. (A.M.S.)

9780821875544

28,886

147* **Bracci, F. (Ed.):** Geometric Function Theory in Higher Dimension. 170 pp. =**Springer INdAM Series. Vol. 26.** Hard. (Springer)

2-2018

9783319731254

15,470

148 **Buchanan, J. R. & Shao, Z.:** A First Course in Partial Differential Equations. 2018. 606 pp. Hard. (World Scientific)

9789813226432

23,590

149*	Budzynski, P. et al: Unbounded Weighted Composition Operators in L ₂ -Spaces. 140 pp. = Lecture Notes in Mathematics. Vol. 2209. Paper. (Springer)	5-2018	9783319740386	7,030
150	Carrillo, J. A. et al (Ed.): Nonlocal and Nonlinear Diffusions and Interactions: New Methods and Directions. Cetraro, Italy 2016. 2017. 278 pp. = Lecture Notes in Mathematics. Vol. 2186. Paper. (Springer)		9783319614939	19,090
151	Colli, P. et al (Ed.): Solvability, Regularity, and Optimal Control of Boundary Value Problems for PDEs. In Honour of Prof. Gianni Gilardi. 2017. 571 pp. = Springer INdAM Series. Vol. 22. Hard. (Springer)		9783319644882	26,250
152*	Collot, C.: Type II Blow Up Manifolds for the Energy Supercritical Semilinear Wave Equation. 159 pp. = Memoirs. Vol. 1205. Paper. (A.M.S.)	3-2018	9781470428136	13,728
153*	Crippa, G. & Mazzucato, A.: Transport, Fluids, and Mixing. 200 pp. Hard. (de Gruyter)	12-2017	9783110571233	14,670
154*	Dick, J. et al (Ed.): Contemporary Computational Mathematics - a celebration of the 80th birthday of Ian Sloan. 1100 pp. Hard. (Springer)	4-2018	9783319724553	44,010
155*	Dobrev, V. K.: Invariant Differential Operators, Vol. 3. Supersymmetry, AdS/CFT, Virasoro and Affine (Super-)Algebras. 420 pp. = de Gruyter Studies in Mathematical Physics. Hard. (de Gruyter)	6-2018	9783110526639	20,080
156	Dobrushkin, V. A.: Applied Differential Equations with Boundary Value Problems. 2018. 681 pp. = Textbooks in Mathematics. Hard. (Chapman and Hall/CRC)		9781498733656	17,630
157*	Dryga, P. & Rogosin, S. (Ed.): Modern Problems in Applied Analysis. 146 pp. = Trends in Mathematics. Hard. (Birkhauser)	2-2018	9783319726397	14,060
158*	Ebert, M. R. & Reissing, M.: Methods for Partial Differential Equations Qualitative Properties of Solutions, Phase Space Analysis, Semilinear Models. 478 pp. Hard. (Birkhauser)	1-2018	9783319664552	13,460
159	Einsiedler, M. & Ward, T.: Functional Analysis, Spectral Theory, and Applications. 2017. 614 pp. = G.T.M. Vol. 276. Hard. (Springer)		9783319585390	14,060

- 160 **Elaydi, S. et al (Ed.):** Advances in Difference Equations and Discrete Systems. ICDEA, Osaka, Japan, July 2016. 2017. 282 pp. =**Springer Proceedings in Mathematics and Statistics. Vol. 212.** Hard. (Springer)
9789811064081 19,180
- 161 **Field, M.:** Essential Real Analysis. 2017. 450 pp. =**Springer Undergraduate Mathematics Series.** Paper. (Springer)
9783319675459 7,060
- 162* **Figalli, A. et al:** Partial Differential Equations and Geometric Measure Theory. Cetraro, Italy 2014. 190 pp. =**Lecture Notes in Mathematics. Vol. 2211.** Paper. (Springer)
6-2018 9783319740416 7,030
- 163* **Giordano, T. et al (Ed.):** Crossed Products of C^* -Algebras, Topological Dynamics, and Classification. 450 pp. =**Advanced Courses in Mathematics CRM Barcelona.** Paper. (Birkhauser)
5-2018 9783319708683 8,030
- 164 **Goncalves, P. & Soares, A. J. (Ed.):** From Particle Systems to Partial Differential Equations. PSPDE IV, Braga, Portugal, December 2015. 2017. 308 pp. =**Springer Proceedings in Mathematics and Statistics. Vol. 209.** Hard. (Springer)
9783319668383 22,210
- 165* **Guneyasu, B.:** Covariant Schrodinger Semigroups on Riemannian Manifolds. 239 pp. =**Operator Theory. Vol. 264.** Hard. (Birkhauser)
1-2018 9783319689029 19,090
- 166* **Gunning, R. C.:** An Introduction to Analysis. 392 pp. Hard. (Princeton UP)
3-2018 9780691178790 10,270
- 167 **Haslinger, F.:** Complex Analysis. A Functional Analytic Approach. 2018. 338 pp. Paper. (de Gruyter)
9783110417234 9,030
- 168* **Hasselblatt, B. (Ed.):** Ergodic Theory and Negative Curvature. CIRM Jean-Morlet Chair, Fall 2013. 326 pp. =**Lecture Notes in Mathematics. Vol. 2164.** Paper. (Springer)
4-2018 9783319430584 9,040
- 169 **Henrot, A.:** Shape Optimization and Spectral Theory. 2017. 474 pp. Hard. (de Gruyter)
9783110550856 32,560

170* **HARISH-CHANDRA:**

Collected Papers V

(Posthumous)

Harmonic Analysis on Real Semisimple Groups

Ed. by Gangolli, R. & Varadarajan, V. S.

600 pp.

33,160

This volume is to be regarded as the fifth in the series of Harish-Chandra's collected papers, continuing the four volumes already published by Springer-Verlag. Because of manifold illnesses in the last ten years of his life, a large part of Harish-Chandra's work remained unpublished (ISBN 978-3-319-73289-3)



2 月出版予定

SPRINGER

171* **Hormander, L.:** Unpublished Manuscripts of Lars Hormander. from 1951 to 2007. 329 pp. Hard. (Springer)
1-2018 9783319698496 22,100

172* **Hytonen, T. et al:** Analysis in Banach Spaces, Vol. II. Probabilistic Methods and Operator Theory. 616 pp.
=Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge. Vol. 67. Hard. (Springer)
12-2017 9783319698076 26,120

173 **Ioffe, A. D.:** Variational Analysis of Regular Mappings. Theory and Applications. 2017. 495 pp. **=Springer Monographs in Mathematics.** Hard. (Springer)
9783319642765 22,210

174 **Isaev, A.:** Twenty-One Lectures on Complex Analysis. A First Course. 2017. 194 pp. **=Springer Undergraduate Mathematics Series.** Paper. (Springer)
9783319681696 7,030

175* **Isozaki, H.:** Maxwell Equation. Inverse Scattering in Electromagnetism. 300 pp. Hard. (World Scientific)
6-2018 9789813232693 20,170

176 **Jain, P. & Schmeisser, H.-J. (Ed.):** Function Spaces and Inequalities. New Delhi, India, December 2015. 2017. 335 pp. **=Springer Proceedings in Mathematics and Statistics. Vol. 206.** Hard. (Springer)
9789811061189 18,990

177 **Katayama, S.:** Global solutions and the asymptotic behavior for nonlinear wave equations with small initial data. 2017. 298 pp. **=MSJ Memoirs. Vol. 36.** Paper. (M.S.J.)
9784864970549 4,723

178	Katzourakis, N. & Varvaruca, E.: An Illustrative Introduction to Modern Analysis. 2018. 541 pp. Hard. (Chapman and Hall/CRC)	9781138718272	17,630	
179	Kharazishvili, A.: Strange Functions in Real Analysis. 3rd ed. 2018. 426 pp. Hard. (Chapman and Hall/CRC)	9781498773140	17,630	
180*	Kielhofer, H.: Calculus of Variations. An Introduction to the One-Dimensional Theory with Examples and Exercises. 224 pp. = Texts in Applied Mathematics. Vol. 67. Hard. (Springer)	2-2018	9783319711225	11,450
181*	Kirkwood, J. R.: Mathematical Physics with Partial Differential Equations. 2nd ed. 576 pp. Hard. (Academic)	3-2018	9780128147597	22,230
182*	Kocic, V. L. & Kent, C. M.: Nonlinear Nonautonomous Difference Equations. Global Behavior and Applications. 312 pp. = de Gruyter Series in Mathematics and Life Sciences. Hard. (de Gruyter)	8-2018	9783110482058	20,080
183*	Kodaira, K.: Nevanlinna Theory. 86 pp. = Springer Briefs in Mathematics. Paper. (Springer)	1-2018	9789811067860	10,040
184	Krantz, S. G.: Foundations of Analysis. 2015. 301 pp. Hard. (Chapman and Hall/CRC)	9781482220742	11,680	
185	Krantz, S. G.: Harmonic and Complex Analysis in Several Variables. 2017. 424 pp. = Springer Monographs in Mathematics. Hard. (Springer)	9783319632292	21,990	
186	Krantz, S. G.: Transition to Analysis with Proof. 2018. 347 pp. = Textbooks in Mathematics. Hard. (Chapman and Hall/CRC)	9781138064140	29,310	
187*	Krasil'shchik, J. et al: The Symbolic Computation of Integrability Structures for Partial Differential Equations. 219 pp. = Texts and Monographs in Symbolic Computation. Hard. (Springer)	2-2018	9783319716541	19,090
188	Leoni, G.: A First Course in Sobolev Spaces. 2nd ed. 2017. 734 pp. = Graduate Studies in Mathematics. Vol. 181. Hard. (A.M.S.)	9781470429218	16,066	
189	Li, T. & Zhou, Y.: Nonlinear Wave Equations. 2017. 391 pp. = Series in Contemporary Mathematics. Vol. 2. Hard. (Springer)	9783662557235	22,100	

190* **LAX, P. & TERRELL, M. S.:**
Multivariable Calculus with
Applications
 =U.T.M.



471 pp. 10,040

This text in multivariable calculus fosters comprehension through meaningful explanations. Written with students in mathematics, the physical sciences, and engineering in mind, it extends concepts from single variable calculus such as derivative, integral, and important theorems to partial derivatives, multiple integrals, Stokes' and divergence theorems
 (ISBN 978-3-319-74072-0)

3 月出版予定

SPRINGER

191 **Li, Z. et al:** Numerical Solution of Differential Equations. Introduction to Finite Difference and Finite Element Methods. 2018. 293 pp. Hard. (Cambridge UP)
 9781107163225 15,381

192 **Lindstrom, T. L.:** Spaces. An Introduction to Real Analysis. 2017. 369 pp. =**Pure and Applied Undergraduate Texts. Vol. 29.** Hard. (A.M.S.)
 9781470440626 15,212

193* **Liu, X. & Schulze, B.-W.:** Boundary Value Problems with Global Projection Conditions. 400 pp. =**Operator Theory. Vol. 265.** Hard. (Birkhauser)
 2-2019 9783319701134 22,100

194* **Loya, P.:** Amazing and Aesthetic Aspects of Analysis. 722 pp. =**U.T.M.** Hard. (Springer)
 2-2018 9781493967933 12,050

195 **Lynch, S.:** Dynamical Systems with Applications using Mathematica. 2nd ed. 2017. 585 pp. Hard. (Birkhauser)
 9783319614847 16,150

196 **Madden, D. J. & Aubrey, J. A.:** An Introduction to Proof through Real Analysis. 2017. 417 pp. Hard. (Wiley)
 9781119314721 17,090

197 **Maekawa, Y. & Jimbo, S. (Ed.):** Mathematics for Nonlinear Phenomena - Analysis and Computation. In Honor of Yoshikazu Giga's 60th Birthday, Sapporo, Japan, August 2015. 2017. 299 pp. =**Springer Proceedings in Mathematics and Statistics. Vol. 215.** Hard. (Springer)
 9783319667621 22,210

198*	Magrenan, A. A. & Argyros, I.: A Contemporary Study of Iterative Methods. Convergence, Dynamics and Applications. 400 pp. Paper. (Academic)	3-2018	9780128092149	17,090
199	Mahafza, B. R.: Introduction to Radar Analysis. 2nd ed. 2017. 444 pp. = Advances in Applied Mathematics . Hard. (Chapman and Hall/CRC)		9781498761079	25,190
200	Morettin, P. A. et al: Wavelets in Functional Data Analysis. 2017. 106 pp. = Springer Briefs in Mathematics . Paper. (Springer)		9783319596228	10,040
201*	Mortad, M. H.: An Operator Theory Problem Book. 600 pp. Hard. (World Scientific)	8-2018	9789813236257	16,750
202*	Motreanu, D.: Nonlinear Differential Problems with Smooth and Nonsmooth Constraints. 304 pp. = Mathematical Analysis and its Applications . Paper. (Academic)	6-2018	9780128133866	29,920
203	Ng, W. L.: Nonabsolute Integration on Measure Spaces. 2018. 228 pp. = Series in Real Analysis. Vol. 14 . Hard. (World Scientific)		9789813221963	15,040
204*	Nier, F.: Boundary Conditions and Subelliptic Estimates for Geometric Kramers-Fokker-Planck Operators on Manifolds with Boundaries. 142 pp. = Memoirs. Vol. 1200 . Paper. (A.M.S.)	3-2018	9781470428020	13,728
205	Nishitani, T.: Cauchy Problem for Differential Operators with Double Characteristics. Non-Effectively Hyperbolic Characteristics. 2017. 211 pp. = Lecture Notes in Mathematics. Vol. 2202 . Paper. (Springer)		9783319676111	7,030
206	Olson, T.: Applied Fourier Analysis. From Signal Processing to Medical Imaging. 2017. 302 pp. Paper. (Birkhauser)		9781493973910	11,450
207*	Palatucci, G. & Kuusi, T. (Ed.): Recent Developments in Nonlocal Theory. 450 pp. Hard. (de Gruyter)	12-2017	9783110571554	33,360
208*	Papageorgiou, N. S. & Winkert, P.: Applied Nonlinear Functional Analysis. An Introduction. 562 pp. = de Gruyter Textbook . Paper. (de Gruyter)	5-2018	9783110516227	16,060

209*	Pollicott, M. & Urbanski, M.: Open Conformal Systems and Perturbations of Transfer Operators. 204 pp. = Lecture Notes in Mathematics. Vol. 2206. Paper. (Springer)	1-2018	9783319721781	7,030
210	Quarteroni, A.: Numerical Models for Differential Problems. 3rd ed. 2017. 681 pp. = MS and A. Vol. 16. Hard. (Springer)		9783319493152	16,070
211	Schmudgen, K.: The Moment Problem. 2017. 535 pp. = G.T.M. Vol. 277. Hard. (Springer)		9783319645452	16,070
212	Schneider, G. & Uecker, H.: Nonlinear PDEs. A Dynamical Systems Approach. 2017. 575 pp. = Graduate Studies in Mathematics. Vol. 182. Hard. (A.M.S.)		9781470436131	16,921
213	Serovajsky, S.: Optimization and Differentiation. 2018. 515 pp. = Monographs and Research Notes in Mathematics. Hard. (Chapman and Hall/CRC)		9781498750936	26,340
214	Simmons, G. F.: Differential Equations with Applications and Historical Notes. 3rd ed. 2017. 740 pp. = Textbooks in Mathematics. Hard. (Chapman and Hall/CRC)		9781498702591	14,650
215	Sofonea, M. & Migorski, S.: Variational-Hemivariational Inequalities with Applications. 2018. 311 pp. = Monographs and Research Notes in Mathematics. Hard. (Chapman and Hall/CRC)		9781498761581	25,190
216*	Swartz, C.: Abstract Duality Pairs in Analysis. 304 pp. Hard. (World Scientific)	2-2018	9789813232761	20,170
217	Volland, D.: A Discrete Hilbert Transform with Circle Packings. 2017. 102 pp. = BestMasters. Paper. (Springer Spektrum)		9783658204563	12,050
218	Wan, F. Y. M.: Dynamical System Models in the Life Sciences and Their Underlying Scientific Issues. 2018. 379 pp. Hard. (World Scientific)		9789813143333	21,880
219*	Xiong, X. & Yin, Z.: Sobolev, Besov and Triebel-Lizorkin Spaces on Quantum Tori. 116 pp. = Memoirs. Vol. 1203. Paper. (A.M.S.)	3-2018	9781470428068	13,728

220* **THOMAS, D. K. et al:**

Univalent Functions

A Primer

=de Gruyter Studies in Mathematics, Vol. 69



300 pp.

19,080

The study of univalent functions dates back to the early years of the 20th century, and is one of the most popular research areas in complex analysis. This book is directed at introducing and bringing up to date current research in the area of univalent functions, with an emphasis on the important subclasses, thus providing an accessible resource suitable for both beginning and experienced researchers

(ISBN 978-3-11-056009-1)

3月出版予定

DE GRUYTER

221* **Zakharov, V. K. et al:** Sets, Functions, Measures, Vol. 2. Fundamentals of Functions and Measure Theory. 400 pp.

=de Gruyter Studies in Mathematics. Vol. 68/2. Hard.

(de Gruyter)

1-2018

9783110550092

24,100

222* **Zelditch, S.:** Eigenfunctions of the Laplacian on a Riemannian Manifold. 394 pp. =CBMS Regional

Conference Series in Mathematics. Vol. 125. Paper.

(A.M.S.)

1-2018

9781470410377

13,509

223 **Zhou, Y. et al:** Topological Structure of the Solutions Set for Evolution Inclusions. 2017. 269 pp. =Developments in

Mathematics. Vol. 51. Hard. (Springer)

9789811066559

19,180

Logic, Foundations &

Discrete Mathematics

224* **Beall, J. et al:** Formal Theories of Truth. 144 pp. Hard.

(Oxford UP)

3-2018

9780198815679

7,920

225* **Beall, J. et al:** Formal Theories of Truth. 144 pp. Paper.

(Oxford UP)

3-2018

9780198815686

2,960

226* **Bengtsson, G. et al (Ed.):** New Essays on Frege. Between Science and Literature. 185 pp. =Nordic Wittgenstein

Studies. Vol. 3. Hard. (Springer)

1-2018

9783319711850

18,080

227* **BANG-JENSEN, J. & GUTIN, G. (Eds.):**
Classes of Directed Graphs
 =Springer Monographs in Mathematics



638 pp.

22,100

This edited volume offers a detailed account on the theory of directed graphs from the perspective of important classes of digraphs, with each chapter written by experts on the topic. Outlining fundamental discoveries and new results obtained over recent years, this book provides a comprehensive overview of the latest research in the field (ISBN 978-3-319-71839-2)

3 月出版予定

SPRINGER

- 228* **Button, T. & Walsh, S.:** Philosophy and Model Theory. 512 pp. Hard. (Oxford UP)
 2-2018 9780198790396 14,850
- 229* **Button, T. & Walsh, S.:** Philosophy and Model Theory. 512 pp. Paper. (Oxford UP)
 2-2018 9780198790402 5,940
- 230* **Ferguson, T. M.:** Meaning and Proscription in Formal Logic. Variations on the Propositional Logic of William T. Parry. 195 pp. =**Trends in Logic. Vol. 49.** Hard. (Springer)
 12-2017 9783319708201 18,080
- 231* **Korte, B. & Vygen, J.:** Combinatorial Optimization. Theory and Algorithms. 6th ed. 690 pp. =**Algorithms and Combinatorics. Vol. 21.** Hard. (Springer)
 3-2018 9783662560389 16,070
- 232 **Loebl, M. et al (Ed.):** A Journey Through Discrete Mathematics. A Tribute to Jiri Matousek. 2017. 810 pp. Hard. (Springer)
 9783319444789 25,990
- 233 **Meier, J. & Smith, D.:** Exploring Mathematics. An Engaging Introduction to Proof. 2017. 324 pp. =**Cambridge Mathematical Textbooks.** Hard. (Cambridge UP)
 9781107128989 8,378
- 234 **Shen, A. et al:** Kolmogorov Complexity and Algorithmic Randomness. 2017. 511 pp. =**Mathematical Surveys and Monographs. Vol. 220.** Hard. (A.M.S.)
 9781470431822 21,194
- 235 **Sriraman, B. (Ed.):** Humanizing Mathematics and its Philosophy. Essays Celebrating the 90th Birthday of Reuben Hersh. 2017. 363 pp. Hard. (Birkhauser)
 9783319612300 22,100

236*	Vandoulakis, I. M. & Liu, D.: Navigating across Mathematical Cultures and Times. Exploring the Diversity of Discoveries and Proofs. 600 pp. Hard. (World Scientific)	8-2018	9789814689366	19,320
237	Wallis, W. D. & George, J. C.: Introduction to Combinatorics. 2nd ed. 2017. 423 pp. = Discrete Mathematics and Its Applications . Hard. (Chapman and Hall/CRC)		9781498777605	18,780

Probability & Statistics

238	Accardi, L. et al (ed.): White Noise Analysis and Quantum Information. 2018. 230 pp. = Lecture Notes Series, Institute for Mathematical Sciences, National University of Singapore. Vol. 34 . Hard. (World Scientific)		9789813225459	16,750
239	Albeverio, S. et al (Ed.): Stochastic Geometric Mechanics. CIB, Lausanne, Switzerland, Jan.-Jun. 2015. 2017. 265 pp. = Springer Proceedings in Mathematics and Statistics. Vol. 202 . Hard. (Springer)		9783319634524	19,090
240*	Athreya, S. R. & Sunder, V. S.: Measure and Probability. rep. 232 pp. Paper. (CRC Press)	4-2018	9781138114180	13,800
241*	Auffinger, A. et al: 50 Years of First-Passage Percolation. 161 pp. = University Lecture Series. Vol. 68 . Paper. (A.M.S.)	1-2018	9781470441838	7,524
242	Baldi, P.: Stochastic Calculus. An Introduction Through Theory and Exercises. 2017. 627 pp. = Universitext . Paper. (Springer)		9783319622255	16,070
243	Barlow, M. T.: Random Walks and Heat Kernels on Graphs. 2017. 226 pp. = London Mathematical Society Lecture Note Series. Vol. 438 . Paper. (Cambridge UP)		9781107674424	13,680
244*	Batanero, C. & Chernoff, E. J. (Ed.): Teaching and Learning Stochastics. Advances in Probability Education Research. 547 pp. = ICME-13 Monographs . Hard. (Springer)	1-2018	9783319728704	28,130

- 245 **Baudoin, F. & Peterson, J. (Ed.):** Stochastic Analysis and Related Topics. A Festschrift in Honor of Rodrigo Banuelos. 2017. 221 pp. **=Progress in Probability, Vol. 72.** Hard. (Birkhauser)
9783319596709 24,110
- 246 **Berger, P. et al:** Experimental Design. With Applications in Management, Engineering and the Sciences. 2nd ed. 2017. 639 pp. Hard. (Springer)
9783319645827 16,070
- 247* **Borcard, D. et al:** Numerical Ecology with R. 2nd ed. 570 pp. **=Use R. Paper.** (Springer)
2-2018 9783319714035 11,050
- 248 **Borodin, A.:** Stochastic Processes. 2017. 626 pp. **=Probability and Its Applications.** Hard. (Birkhauser)
9783319623092 26,250
- 249 **Buttrey, S. E. & Whitaker, L. R.:** A Data Scientist's Guide to Acquiring, Cleaning, and Managing Data in R. 2017. 288 pp. Hard. (Wiley)
9781119080022 11,110

<p>250* COLLET, J.-F.: Discrete Stochastic Processes and Applications =Universitext</p> <p style="text-align: right;">218 pp. 13,460</p> <p>This unique text for beginning graduate students gives a self-contained introduction to the mathematical properties of stochastics and presents their applications to Markov processes, coding theory, population dynamics, and search engine design (ISBN 978-3-319-74017-1)</p> <p>5 月出版予定</p>	
SPRINGER	

- 251* **Corazza, M. et al (Ed.):** Mathematical and Statistical Methods for Actuarial Sciences and Finance. MAF 2016. 122 pp. Hard. (Springer)
1-2018 9783319502335 15,470
- 252 **Desagulier, G.:** Corpus Linguistics and Statistics with R. Introduction to Quantitative Methods in Linguistics. 2017. 351 pp. **=Quantitative Methods in the Humanities and Social Sciences.** Hard. (Springer)
9783319645704 13,460

253*	Dias, S. et al: Network Meta-analysis for Comparative Effectiveness Research. 464 pp. = Statistics in Practice . Hard. (Wiley)	2-2018	9781118647509	15,390
254*	Fos, P. J. et al: Managerial Epidemiology for Health Care Organizations. 416 pp. = Public Health/Epidemiology and Biostatistics . Paper. (Wiley)	2-2018	9781119398813	16,240
255	Gentle, J. E.: Matrix Algebra. Theory, Computations, and Applications in Statistics. 2nd ed. 2017. 648 pp. = Springer Texts in Statistics . Paper. (Springer)		9783319648668	15,990
256	Han, X. & Kloeden, P. E.: Random Ordinary Differential Equations and Their Numerical Solution. 2017. 250 pp. = Probability Theory and Stochastic Modelling. Vol. 85 . Hard. (Springer)		9789811062643	19,180
257*	Hermans, L. M. & Cunningham, S. W.: Actor and Strategy Models. 416 pp. Hard. (Wiley)	2-2018	9781119284703	15,380
258	Heydenreich, M. & van der Hofstad, R.: Progress in High-Dimensional Percolation and Random Graphs. 2017. 287 pp. = CRM Short Courses . Hard. (Springer)		9783319624723	11,450
259*	Hirukawa, M. & Sakudo, M.: Asymmetric Kernel Smoothing. Theory and Applications in Economics and Finance. 100 pp. = Springer Briefs in Statistics . Paper. (Springer)	5-2018	9789811054655	11,050
260*	Hokamp, S. et al: Agent-based Modelling of Tax Evasion. Theoretical Aspects and Computational Simulations. 376 pp. = Wiley Series in Computational and Quantitative Social Science . Hard. (Wiley)	1-2018	9781119155683	14,530
261	Holcman, D. (Ed.): Stochastic Processes, Multiscale Modeling, and Numerical Methods or Computational Cellular Biology. 2017. 377 pp. Hard. (Springer)		9783319626260	22,210
262	Hong, Y.: Probability and Statistics for Economists. 2018. 577 pp. Hard. (World Scientific)		9789813228818	20,170
263	Hosoya, Y. et al: Characterizing Interdependencies of Multiple Time Series. Theory and Applications. 2017. 133 pp. = Springer Briefs in Statistics . Paper. (Springer)		9789811064357	10,090

264	Jones, P. W. & Smith, P.: Stochastic Processes. An Introduction. 3rd ed. 2018. 255 pp. = Texts in Statistical Science . Hard. (Chapman and Hall/CRC)	9781498778114	11,450
265*	Kubilius, K. et al: Parameter Estimation in Fractional Diffusion Models. 360 pp. = Bocconi and Springer Series. Vol. 8 . Hard. (Springer)	1-2018 9783319710297	22,100
266	Kulik, A.: Ergodic Behavior of Markov Processes. With Applications to Limit Theorems. 2018. 256 pp. = de Gruyter Studies in Mathematics. Vol. 67 . Hard. (de Gruyter)	9783110458701	20,080
267	Latan, H. & Noonan, R. (Ed.): Partial Least Squares Path Modeling. Basic Concepts, Methodological Issues and Applications. 2017. 414 pp. Hard. (Springer)	9783319640686	22,100
268	Lauro, N. C. et al (Ed.): Data Science and Social Research. Epistemology, Methods, Technology and Applications. 2017. 300 pp. = Studies in Classification, Data Analysis, and Knowledge Organization . Paper. (Springer)	9783319554761	20,190
269	Levin, D. A. & Peres, Y.: Markov Chains and Mixing Times. 2nd ed. 2017. 447 pp. Hard. (A.M.S.)	9781470429621	14,357
270*	Macdonald, A. S. et al: Modelling Mortality with Actuarial Applications. 395 pp. = International Series on Actuarial Science . Hard. (Cambridge UP)	6-2018 9781107045415	16,245
271*	Martino, L. et al: Independent Random Sampling Methods. 340 pp. = Statistics and Computing . Hard. (Springer)	3-2018 9783319726335	22,100
272*	Mishura, Y. & Shevchenko, G.: Theory and Statistical Applications of Stochastic Processes. 400 pp. Hard. (Wiley)	1-2018 9781786300508	26,500
273	Panov, V. (Ed.): Modern Problems of Stochastic Analysis and Statistics. Selected Contributions In Honor of Valentin Konakov. 2017. 511 pp. = Springer Proceedings in Mathematics and Statistics. Vol. 208 . Hard. (Springer)	9783319653129	19,090
274*	Perna, C.: Studies in Theoretical and Applied Statistics. SIS 2016, Salerno, Italy, June 8-10. 310 pp. = Springer Proceedings in Mathematics and Statistics. Vol. 227 . Hard. (Springer)	4-2018 9783319739052	22,100

275	Pfanzagl, J.: Mathematical Statistics. Essays on History and Methodology. 2017. 316 pp. = Springer Series in Statistics . Hard. (Springer)	9783642310836	22,210	
276*	Pons, O.: Estimations and Tests in Change-Point Models. 300 pp. Hard. (World Scientific)	3-2018	9789813231764	20,170
277*	Pruim, R.: Foundations and Applications of Statistics. An Introduction Using R. 2nd ed. = Pure and Applied Undergraduate Texts. Vol. 28 . Hard. (A.M.S.)	4-2018	9781470428488	23,769
278*	Quirk, T. & Rhiney, E.: Excel 2016 for Advertising Statistics. A Guide to Solving Practical Problems. 256 pp. = Excel for Statistics . Paper. (Springer)	1-2018	9783319721033	11,450
279*	Rasch, D. & Schott, D.: Mathematical Statistics. 624 pp. Hard. (Wiley)	2-2018	9781119385288	13,680
280*	Rudas, T.: Lectures on Categorical Data Analysis. 290 pp. = Springer Texts in Statistics . Hard. (Springer)	5-2018	9781493976911	12,050
281*	Schmuller, J.: R Projects For Dummies. 320 pp. Paper. (Wiley)	1-2018	9781119446187	5,120
282	Shmueli, G. et al: Data Mining for Business Analytics. Concepts, Techniques, and Applications in R. 2018. 544 pp. Hard. (Wiley)		9781118879368	23,080
283*	Speelman, D. et al (Ed.): Mixed-Effects Regression Models in Linguistics. 137 pp. = Quantitative Methods in the Humanities and Social Sciences . Hard. (Springer)	2-2018	9783319698281	15,470
284	Sugita, H.: Probability and Random Number. A First Guide to Randomness. 2018. 125 pp. Hard. (World Scientific)		9789813228252	8,200
285	Thomopoulos, N. T.: Statistical Distributions. Applications and Parameter Estimates. 2017. 172 pp. Hard. (Springer)		9783319651118	15,390
286*	Uboe, J.: Introductory Statistics for Business and Economics. Theory, Exercises and Solutions. 486 pp. = Springer Texts in Business and Economics . Hard. (Springer)	2-2018	9783319709352	10,650
287*	Weiss, C.: An Introduction to Discrete-Valued Time Series. 312 pp. Hard. (Wiley)	1-2018	9781119096962	14,530

Applied Mathematics

- 288* **Aksamit, A. & Jeanblanc, M.:** Enlargement of Filtrations with Finance in View. 150 pp. =**Springer Briefs in Quantitative Finance**. Paper. (Springer)
12-2017 9783319412542 10,040
- 289* **Apaloo, J. & Viscolani, B. (Ed.):** Advances in Dynamic and Mean-Field Games. Theory, Applications, and Numerical Methods. 365 pp. =**Annals of the International Society of Dynamic Games. Vol. 15**. Hard. (Birkhauser)
1-2018 9783319706184 22,100
- 290* **Assous, F. et al:** Mathematical Foundations of Computational Electromagnetism. 440 pp. =**Applied Mathematical Sciences. Vol. 198**. Hard. (Springer)
6-2018 9783319708416 22,100
- 291 **Baake, M. & Grimm, U. (Ed.):** Aperiodic Order, Vol. 2. Crystallography and Almost Periodicity. 2017. 386 pp. =**Encyclopedia of Mathematics and Its Applications. Vol. 166**. Hard. (Cambridge UP)
9780521869928 23,940
- 292* **Bakushinsky, A. B.:** Regularization Algorithms for Ill-Posed Problems. 382 pp. =**Inverse and Ill-Posed Problems Series. Vol. 61**. Hard. (de Gruyter)
2-2018 9783110556308 24,100
- | | | |
|-----|---|-------|
| 293 | Ball, J. et al (Ed.): Mathematical Thermodynamics of Complex Fluids. Cetraro, Italy 2015. 2017. 145 pp. = Lecture Notes in Mathematics. Vol. 2200 . Paper. (Springer) | 7,030 |
|-----|---|-------|
- 294 **Ballance, C. J.:** High-Fidelity Quantum Logic in Ca+. 2017. 141 pp. =**Springer Theses**. Hard. (Springer)
9783319682150 19,990
- 295 **Belinski, V. & Henneaux, M.:** The Cosmological Singularity. 2018. 263 pp. =**Cambridge Monographs on Mathematical Physics**. Hard. (Cambridge UP)
9781107047471 23,929
- 296* **Bi, Z.:** Finite Element Analysis Applications. A Systematic and Practical Approach. 520 pp. Paper. (Academic)
1-2018 9780128099520 20,520
- 297* **Bianchini, L.:** Selected Exercises in Particle and Nuclear Physics. 366 pp. =**UNITEXT for Physics**. Hard. (Springer)
12-2017 9783319704937 14,060
- 298* **Boche, H. et al (Ed.):** Compressed Sensing and Its Applications. Second International MATHEON Conference 2015. 398 pp. =**Applied and Numerical Harmonic Analysis**. Hard. (Birkhauser)
2-2018 9783319698014 22,100

299*	Breit, D. et al: Stochastically Forced Compressible Fluid Flows. 362 pp. = de Gruyter Series in Applied and Numerical Mathematics. Vol. 3. Hard. (de Gruyter)	2-2018	9783110490503	20,080
300*	Caillol, C.: Scalar Boson Decays to Tau Leptons. In the Standard Model and Beyond. 276 pp. = Springer Theses. Hard. (Springer)	12-2017	9783319706498	20,090
301	Carfora, M. & Marzuoli, A.: Quantum Triangulations. Moduli Space, Quantum Computing, Non-Linear Sigma Models and Ricci Flow. 2nd ed. 2017. 392 pp. = Lecture Notes in Physics. Vol. 942. Paper. (Springer)		9783319679365	14,060
302*	Cinar, D. et al (Ed.): Sustainable Logistics and Transportation. Optimization Models and Algorithms. 278 pp. = Springer Optimization and Its Applications. Vol. 129. Hard. (Springer)	1-2018	9783319692142	19,090
303*	Conte, S. D. & de Boor, C.: Elementary Numerical Analysis. An Algorithmic Approach. 456 pp. = Classics in Applied Mathematics. Vol. 78. Paper. (S.I.A.M.)	12-2017	9781611975192	13,680
304*	de Paulo, N. V. & Salomao, A. S.: Systems of Transversal Sections Near Critical Energy Levels of Levels of Hamiltonian Systems in R^4 . 105 pp. = Memoirs. Vol. 1202. Paper. (A.M.S.)	3-2018	9781470428013	13,728
305*	Deutsch, A. & Dormann, S.: Cellular Automaton Modeling of Biological Pattern Formation. Characterization, Examples, and Analysis. 2nd ed. 470 pp. = Modeling and Simulation in Science, Engineering and Technology. Hard. (Birkhauser)	12-2017	9781489979780	26,120
306*	Deych, L. I.: Advanced Undergraduate Quantum Mechanics. Methods and Applications. 612 pp. Hard. (Springer)	2-2018	9783319715490	16,070
307*	Duchin, M. et al (Ed.): Geometry of Gerrymandering. 350 pp. Hard. (Birkhauser)	5-2018	9783319691602	22,100
308	Fauvet, F. et al (Ed.): Resurgence, Physics and Numbers. 2017. 381 pp. = CRM Series. Vol. 20. Paper. (Scuola Normale Superiore)		9788876426124	5,620
309	Garcia-Diaz, A. A.: Exact Solution in Three-Dimensional Gravity. 2017. 434 pp. = Cambridge Monographs on Mathematical Physics. Hard. (Cambridge UP)		9781107147898	29,911

310*	Geurts, B. J.: Direct and Large-Eddy Simulation. 312 pp. =de Gruyter Series in Computational Science and Engineering. Hard. (de Gruyter)	8-2018	9783110516210	24,100
311*	Giga, Y. & Novotny, A. (Ed.): Handbook of Mathematical Analysis in Mechanics of Viscous Fluids. 3 vols. not available separately. 3050 pp. Hard. (Springer)	1-2018	9783319133430	291,450
312	Griebel, M. et al (Ed.): Scientific Computing and Algorithms in Industrial Simulations. Projects and Products of Fraunhofer SCAI. 2017. 376 pp. Hard. (Springer)		9783319624570	22,210
313*	Guo, B. et al: Solitons. 410 pp. Hard. (de Gruyter)	3-2018	9783110549249	24,100
314*	Hespanha, J. P.: Linear Systems Theory. 2nd ed. 352 pp. Hard. (Princeton UP)	2-2018	9780691179575	11,640
315	Hossenfelder, S. (Ed.): Experimental Search for Quantum Gravity. 2018. 120 pp. =FIAS Interdisciplinary Science Series. Hard. (Springer)		9783319645360	16,070
316*	Kalise, D. et al (Ed.): Hamilton-Jacobi-Bellman Equations. Numerical Methods and Applications in Optimal Control. 362 pp. =Radon Series on Computational and Applied Mathematics. Hard. (de Gruyter)	8-2018	9783110542639	24,100
317*	Kielanowski, P. et al (Ed.): Geometric Methods in Physics. XXXV Workshop and Summer School, Bialowieza, Poland, June - July 2016. 284 pp. =Trends in Mathematics. Hard. (Birkhauser)	1-2018	9783319635934	14,060
318*	Kutyniok, G. et al (Ed.): Compressed Sensing and Its Applications. Third Int'l MATHEON Conference 2017. 350 pp. =Applied and Numerical Harmonic Analysis. Hard. (Birkhauser)	1-2018	9783319730738	29,140
319*	Langer, U. et al (Ed.): Maxwell's Equations. Analysis and Numerics. 362 pp. =Radon Series on Computational and Applied Mathematics. Hard. (de Gruyter)	10-2018	9783110542646	24,100
320*	Li, M. Y.: An Introduction to Mathematical Modeling of Infectious Diseases. 139 pp. =Mathematics of Planet Earth. Hard. (Springer)	2-2018	9783319721217	9,040
321	Ludyk, G.: Quantum Mechanics in Matrix Form. 2018. 214 pp. Paper. (Springer)		9783319263649	22,210

322*	Marsh, A.: Mathematics for Physics. An Illustrated Handbook. 300 pp. Hard. (World Scientific)	1-2018	9789813233911	16,750
323*	Miller, S. J.: Mathematics of Optimization: How to do Things Faster. 327 pp. = Pure and Applied Undergraduate Texts. Vol. 30. Hard. (A.M.S.)	12-2017	9781470441142	11,799
324*	Moretti, V.: Spectral Theory and Quantum Mechanics. Mathematical Foundations of Quantum Theories, Symmetries and Introduction to the Algebraic Formulation. 2nd ed. 950 pp. = UNITEXT. Vol. 110. Paper. (Springer)	1-2018	9783319707051	18,080
325*	Naldi, G. & Nieuw, T. (Ed.): Mathematical and Theoretical Neuroscience. Cell, Network and Data Analysis. 234 pp. = Springer INdAM Series. Vol. 24. Hard. (Springer)	2-2018	9783319682969	19,090
326*	Neumaier, A.: Quantum Physics. A Lie Algebra Approach. 520 pp. = de Gruyter Studies in Mathematical Physics. Hard. (de Gruyter)	8-2018	9783110406108	26,110
327	Paranjape, M.: The Theory and Applications of Instanton Calculations. 2018. 309 pp. = Cambridge Monographs on Mathematical Physics. Hard. (Cambridge UP)		9781107155473	23,929
328*	Pauly, D.: Maxwell's Equations. Hilbert Space Methods for the Theory of Electromagnetism. 346 pp. = Radon Series on Computational and Applied Mathematics. Hard. (de Gruyter)	10-2018	9783110479300	24,100
329*	Pinder, G. F.: Numerical Methods for Science and Engineering. 304 pp. Hard. (Wiley)	1-2018	9781119316114	21,370
330*	Pinto, A. & Zilberman, D. (Ed.): Modeling, Dynamics, Optimization and Bioeconomics III. DGS IV, Madrid, Spain, June 2016, and Bioeconomy VIII, Berkeley, USA, Apr. 2015 - Selected Contributions. 470 pp. = Springer Proceedings in Mathematics and Statistics. Vol. 224. Hard. (Springer)	3-2018	9783319740850	22,100
331*	Pokrovskii, V. N.: Econodynamics. The Theory of Social Production. 3rd ed. 306 pp. = New Economic Windows. Hard. (Springer)	1-2018	9783319720739	22,100

332*	Satz, H.: Extreme State of Matter in Strong Interaction Physics. An Introduction. 2nd ed. 307 pp. = Lecture Notes in Physics. Vol. 945. Paper. (Springer)		
	2-2018	9783319718934	14,060
333*	Schwichtenberg, J.: Physics from Symmetry. 287 pp. = Undergraduate Lecture Notes in Physics. Hard. (Springer)		
	12-2017	9783319666303	9,040
334*	Shklyaev, S. & Nepomnyashchy, A.: Longwave Instabilities and Patterns in Fluids. 456 pp. = Advances in Mathematical Fluid Mechanics. Hard. (Birkhauser)		
	1-2018	9781493975884	22,100
335	Sugiura, S.: Formulation of Statistical Mechanics Based on Thermal Pure Quantum States. 2017. 73 pp. = Springer Theses. Hard. (Springer)		
		9789811015052	16,150
336*	Tierny, J.: Topological Data Analysis for Scientific Visualization. 150 pp. = Mathematics and Visualization. Hard. (Springer)		
	2-2018	9783319715063	19,090
337*	Vasbinder, J. W. & Gao, H. H. (Ed.): Selected Papers of John H Holland. 260 pp. = Exploring Complexity. Vol. 4. Hard. (World Scientific)		
	1-2018	9789813234765	20,170
338*	von Neumann, J.: Mathematical Foundations of Quantum Mechanics. new ed. 328 pp. Hard. (Princeton UP)		
	3-2018	9780691178561	20,550
339*	von Neumann, J.: Mathematical Foundations of Quantum Mechanics. new ed. 328 pp. Paper. (Princeton UP)		
	3-2018	9780691178578	13,630
340*	Wick, T.: Fracture Propagation. Adaptive Multi-Physics Solvers. 312 pp. = Radon Series on Computational and Applied Mathematics. Hard. (de Gruyter)		
	8-2018	9783110496567	20,080
341	Woit, P.: Quantum Theory, Groups and Representations. An Introduction. 2017. 668 pp. Hard. (Springer)		
		9783319646107	16,150
342	Zamastil, J. & Benda, J.: Quantum Mechanics and Electrodynamics. 2017. 464 pp. Hard. (Springer)		
		9783319657790	22,210
343*	Zhu, B.: The Finite Element Method. Fundamentals and Applications in Civil, Hydraulic, Mechanical and Aeronautical Engineering. 600 pp. Hard. (Wiley)		
	1-2018	9781119107316	28,210

- 352 **O'Neill, M. (Ed.):** Cryptography and Coding. 16th IMA Int'l Conference, IMACC 2017, Oxford, UK, Dec. 2017, Proceedings. 2017. 393 pp. =**Lecture Notes in Computer Science. Vol. 10655.** Paper. (Springer)
9783319710440 13,260
- 353 **Patra, A. & Smart, N. P. (Ed.):** Progress in Cryptology - INDOCRYPT 2017. 18th Int'l Conference on Cryptology in India, Chennai, India, Dec. 2017, Proceedings. 2017. 403 pp. =**Lecture Notes in Computer Science. Vol. 10698.** Paper. (Springer)
9783319716664 11,650
- 354* **Schneider, C. & Zima, E. (Ed.):** Advances in Computer Algebra. In Honour of Sergei Abramov's 70th Birthday, WWCA 2016, Waterloo, Ontario, Canada, July 23-24. 300 pp. =**Springer Proceedings in Mathematics and Statistics. Vol. 226.** Hard. (Springer)
3-2018 9783319732312 19,090
- 355 **Takagi, T. & Peyrin, T. (Ed.):** Advances in Cryptology - ASIACRYPT 2017, Part I. 23rd Int'l Conference on the Theory and Applications of Cryptology and Information Security, Hong Kong, China, Dec. 2017. 2017. 813 pp. =**Lecture Notes in Computer Science. Vol. 10624.** Paper. (Springer)
9783319706931 19,690
- 356 **Takagi, T. & Peyrin, T. (Ed.):** Advances in Cryptology - ASIACRYPT 2017, Part II. 23rd Int'l Conference on the Theory and Applications of Cryptology and Information Security, Hong Kong, China, Dec. 2017. 2017. 701 pp. =**Lecture Notes in Computer Science. Vol. 10625.** Paper. (Springer)
9783319706962 18,090
- 357 **Takagi, T. & Peyrin, T. (Ed.):** Advances in Cryptology - ASIACRYPT 2017, Part III. 23rd Int'l Conference on the Theory and Applications of Cryptology and Information Security, Hong Kong, China, Dec. 2017. 2017. 473 pp. =**Lecture Notes in Computer Science. Vol. 10626.** Paper. (Springer)
9783319706993 13,260
- 358* **Tyagi, V.:** Content-Based Image Retrieval. Ideas, Influences, and Current Trends. 378 pp. Hard. (Springer)
1-2018 9789811067587 22,100