

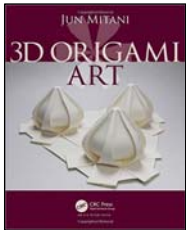
関西・中部・東海統括事務所 Tel 052-740-1829 Fax 052-782-4771 E-mail: chubu@e-bookman.co.jp

数学編

——新刊・既刊ご案内(2016年上期)

外国出版社の新刊・既刊案内のなかから数学関係書籍を選んでご案内致します。ご注文・お見積りなどお気軽にお申し込みください。

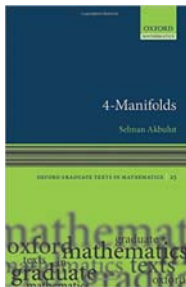
MA-1 【三次元オリガミ】



Mitani, J.
3D Origami Art
May 2016 114 ㊦
Paperback (A.K. Peters)
9781498765343 ¥6,450
Easily Create Origami with Curved Folds and Surfaces

MA-2 【4次元多様体】

Akbulut, S.



4-Manifolds (Oxford Graduate Texts in Mathematics) July 2016 280 ㊦ Hardback (Oxford U.P.) 9780198784869 ¥11,170

This book presents the topology of smooth 4-manifolds in an intuitive self-contained way, developed over a number of years by Professor Akbulut.

MA-3 【幾何学的数値解法入門】

Blanes, S. & F. Casas

A Concise Introduction to Geometric Numerical Integration May 2016 218 ㊦ Hardback (Chapman & Hall/CRC) 9781482263428 ¥22,100

The book first examines high-order classical integration methods from the structure preservation point of view.

MA-4 【解析学・第1巻】

Jacob, N. & K.P. Evans

A Course in Analysis, Volume I: Introductory Calculus, Analysis of Functions of One Real Variable Oct 2015 768 ㊦ Hardback (World Scientific) 9789814689083 ¥23,320

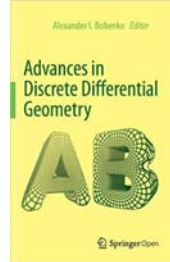
Volume I covers the content of two typical modules in undergraduate course for mathematics:

Part 1: Introductory calculus

Part 2: Analysis of functions of one variable
These two parts are divided into 32 chapters. Part 1 begins with an overview of a set of real numbers: rational and irrational. This is accompanied by a discussion of arithmetic rules, inequalities, absolute values.

MA-5 【離散微分幾何学の進歩】

Bobenko, A.I. (ed)



Advances in Discrete Differential Geometry

July 2016 439 ㊦ Hardback (Springer) 9783662504468 ¥9,710

This is one of the first books on a newly emerging field of discrete differential geometry and an excellent way to access this exciting area.

MA-6 【エージェントベースのモデリングおよびネットワークダイナミクス】

Namatame, A. & S. Chen

Agent-Based Modeling and Network Dynamics Jan 2016 352 ㊦ Hardback (Oxford U.P.) 9780198708285 ¥13,660

MA-7 【AIMD分子動力学と分散リソース割り当て法】

Corless, M. et al.

AIMD Dynamics and Distributed Resource Allocation (Advances in Design and Control) June 2016 249 ㊦ Paperback (Cambridge U.P.) 9781611974218 ¥15,550

MA-8 【代数計算可能性と列挙モデル】

Nourani, C.F.

Algebraic Computability and Enumeration Models: Recursion Theory and Descriptive Complexity Feb 2016 310 ㊦ Hardback (Apple Academic Pr.) 9781771882477 ¥28,310

This book, presents new techniques with functorial models to address important areas on pure mathematics and computability theory from the algebraic viewpoint.

MA-9 【代数空間とスタック】

Olsson, M.

Algebraic Spaces and Stacks (Colloquium Publications) Apr 2016 298 ㊦ Hardback (American Mathematical Society) 9781470427986 ¥17,100

This book is an introduction to the theory of algebraic spaces and stacks intended for graduate students and researchers familiar with algebraic geometry at the level of a first-year graduate course.

MA-10 【ベンフォードの法則入門】

Berger, A. & T.P. Hill

An Introduction to Benford's Law May

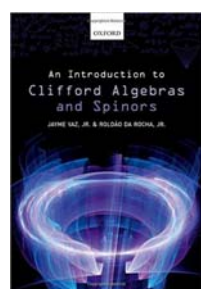
2016 256 ㊦ Hardback

(Princeton U.P.) 9780691163062 ¥12,960

This book provides the first comprehensive treatment of Benford's law, the surprising logarithmic distribution of significant digits discovered in the late nineteenth century.

MA-11 【クリフォード代数およびスピノル】

Vaz, J., Jr. & R. da Rocha, Jr.



An Introduction to Clifford Algebras and Spinors May

2016 256 ㊦ Hardback

(Oxford U.P.) 9780198782926

¥13,660

This text explores how Clifford algebras and spinors have been sparking a collaboration and bridging a gap between Physics and Mathematics.

bridging a gap between Physics and Mathematics.

MA-12 【結び目理論への招待】

Dye, H.A.

An Invitation to Knot Theory: Virtual and Classical Mar 2016 256 ㊦

Hardback (Chapman & Hall/CRC)

9781498701648 ¥9,680

The Only Undergraduate Textbook to Teach Both Classical and Virtual Knot Theory

MA-13 【エンジニアリングおよび信頼性における応用数学】

Bris, R. et al. (eds)

Applied Mathematics in Engineering and Reliability: Proceedings of the 1st International Conference on Applied Mathematics in Engineering and Reliability (Ho Chi Minh City, Vietnam, 4-6 May 2016)

Apr 2016 336 ㊦ Hardback

(CRC Pr.) 9781138029286 ¥26,820

MA-14 【整数論における補助多項式】

David Masser, D.

Auxiliary Polynomials in Number Theory (Cambridge Tracts in Mathematics) July

2016 368 ㊦ Hardback (Cambridge

U.P.) 9781107061576 ¥24,190

This unified account of various aspects of a

powerful classical method, easy to understand in its simplest forms, is illustrated by applications in several areas of number theory.

MA-15 【エコロジストのためのベイズモデル】

Hobbs, N.T. & M.B. Hooten

Bayesian Models: A Statistical Primer for Ecologists Aug 2015 320 ㊦

Hardback (Princeton U.P.)

9780691159287 ¥8,550

This textbook provides a comprehensive and accessible introduction to the latest Bayesian methods--in language ecologists can understand.

MA-16 【ベンフォードの法則 - 理論と応用】

Miller, S.J. (ed)

Benford's Law: Theory and Applications

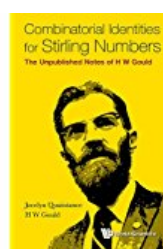
May 2016 464 ㊦ Hardback

(Princeton U.P.) 9780691147611 ¥12,960

Benford's law states that the leading digits of many data sets are not uniformly distributed from one through nine, but rather exhibit a profound bias.

MA-17 【スターリング数の組合せ数学の意味】

Quaintance, J. & H.W. Gould



Combinatorial Identities for Stirling Numbers: The Unpublished Notes of H W Gould

Dec 2015 276 ㊦

Hardback (World Scientific)

9789814725262 ¥15,550

This book is a unique work which provides an in-depth exploration into the mathematical expertise, philosophy, and knowledge of H W Gould.

MA-18 【組合せ論とランダム行列理論】

Baik, J. et al.

Combinatorics and Random Matrix Theory (Graduate Studies in Mathematics) June


2016 461 ㊦ Hardback (American

Mathematical Society) 9780821848418

¥15,370

Over the last fifteen years a variety of problems in combinatorics has been solved in terms of random matrix theory. More precisely, the situation is as follows: the problems at hand are probabilistic in nature and, in an appropriate scaling limit, it turns out that certain key quantities associated with these problems behave statistically like the eigenvalues of a (large) random matrix.

MA-19 【組合せ論、言語および記号力学】
 Berthé, V. & M. Rig
Combinatorics, Words and Symbolic Dynamics (Series: Encyclopedia of Mathematics and its Applications)
 Feb 2016 496 ㊦ Hardback
 (Cambridge U.P.) 9781107077027 ¥26,780
 Internationally recognised researchers look at developing trends in combinatorics with applications in the study of words and in symbolic dynamics.

MA-20 【モジュライ空間のコンパクト化】
 Hacking, P. et al.

Compactifying Moduli Spaces (Advanced Courses in Mathematics - CRM Barcelona)
 Feb 2016 135 ㊦
 Paperback (Springer)
 9783034809207 ¥4,850
 This book focusses on a large class of objects in moduli theory and provides different perspectives from which compactifications of moduli spaces may be investigated.

MA-21 【複素解析】
 Kythe, P.K.
Complex Analysis: Conformal Inequalities and the Bieberbach Conjecture Dec 2015
 343 ㊦ Hardback (Chapman & Hall/CRC)
 9781498718974 ¥17,380
 Complex Analysis: Conformal Inequalities and the Bieberbach Conjecture discusses the mathematical analysis created around the Bieberbach conjecture, which is responsible for the development of many beautiful aspects of complex analysis, especially in the geometric-function theory of univalent functions.

MA-22 【MATHEMATICA による曲線および局面
 ハンドブック・第3版】
 von Seggern, D.H.
CRC Standard Curves and Surfaces with Mathematica, Third Edition May 2016
 460 ㊦ Hardback (CRC Pr.)
 9781482250213 ¥18,870
 The book presents a comprehensive collection of nearly 1,000 illustrations of curves and surfaces often used or encountered in mathematics, graphics design, science, and engineering fields. One significant change with this edition is that, instead of presenting a range of realizations for most functions, this edition presents only one curve associated with each function.

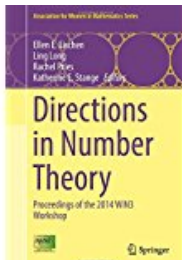
MA-23 【総和可能性の理論と応用】

Dutta, H. & B.E. Rhoades (eds)
Current Topics in Summability Theory and Applications Apr 2016 431 ㊦
 Hardback (Springer) 9789811009129
 ¥21,380
 This book discusses recent developments in and contemporary research on summability theory, including general summability methods, direct theorems on summability, absolute and strong summability, special methods of summability, functional analytic methods in summability, and related topics and applications

MA-24 【劣化過程の信頼性】
 Kahle, W. et al.
Degradation Processes in Reliability June 2016 238 ㊦ Hardback (Wiley)
 9781848218888 ¥21,600
 "Degradation process" refers to many types of reliability models, which correspond to various kinds of stochastic processes used for deterioration modeling.

MA-25 【非局所的初期条件下での時間遅れ微分進化法】
 Burlică, M.-D. et al.
Delay Differential Evolutions Subjected to Nonlocal Initial Conditions June 2016
 362 ㊦ Hardback (Chapman & Hall/CRC)
 9781498746441 ¥15,890
 Filling a gap in the literature, Delay Differential Evolutions Subjected to Nonlocal Initial Conditions reveals important results on ordinary differential equations (ODEs) and partial differential equations (PDEs)

MA-26 【ダイアグラム・シーナス、ゲネレーター、
 応用】
 Stoimenow, A.
Diagram Genus, Generators, and Applications (Series: Monographs and Research Notes in Mathematics) Feb 2016 174 ㊦
 Hardback (Chapman & Hall/CRC)
 9781498733809 ¥15,890
 In knot theory, diagrams of a given canonical genus can be described by means of a finite number of patterns ("generators").

MA-27 【数論の方向】
 Eischen, E.E. et al. (eds)

Directions in Number Theory: Proceedings of the 2014 WIN3 Workshop (Association for Women in Mathematics Series, Vol 3)
 July 2016 282 ㊦
 Hardback (Springer)
 9783319309743 ¥23,320

Exploring the interplay between deep theory and intricate computation, this volume is a compilation of research and survey papers in number theory, written by members of the Women In Numbers (WIN) network, principally by the collaborative research groups formed at Women In Numbers 3, a conference at the Banff International Research Station in Banff, Alberta, on April 21-25, 2014.

MA-28 【離散型 p -分布】

Charalambides, C.A.

Discrete q -Distributions

Mar 2016 264 ㊦ Hardback (Wiley)

9781119119043 ¥17,270

A self-contained study of the various applications and developments of discrete distribution theor

MA-29 【ディオファントス方程式における判別式】

Jan-Hendrik Evertse, J.-H. & K. Györy

Discriminant Equations in Diophantine

Number Theory (New Mathematical

Monographs) Oct 2016 454 ㊦

Hardback (Cambridge U.P.)

9781107097612 ¥26,780

This book is the first comprehensive account of discriminant equations and their applications. It brings together many aspects, including effective results over number fields, effective results over finitely generated domains, estimates on the number of solutions, applications to algebraic integers of given discriminant, power integral bases, canonical number systems, root separation of polynomials and reduction of hyperelliptic curves.

MA30 【分散型偏微分方程式】

Erdġan, M.B. & N. Tzirakis

Dispersive Partial Differential Equations:

Wellposedness and Applications. (London

Mathematical Society Student Texts) June

2016 197 ㊦ Hardback (Cambridge

U.P.) 9781107149045 ¥14,680

With this book, the authors provide a self-contained and accessible introduction for graduate or advanced undergraduate students in mathematics, engineering, and the physical sciences.

MA-31 【楕円型正則性理論】

Beck, L.

Elliptic Regularity Theory: A First Course

(Lecture Notes of the Unione Matematica

Italiana, Vol 19) Apr 2016 201 ㊦

Paperback (Springer) 9783319274843

¥7,770

These lecture notes provide a self-contained introduction to regularity theory for elliptic

equations and systems in divergence form.

MA-32 【Erdős-Ko-Rado の定理】

Godsil, C. & K. Meagher

Erdős - Ko - Rado Theorems: Algebraic

Approaches (Cambridge Studies in Advanced

Mathematics) Nov 2015 350 ㊦

Hardback (Cambridge U.P.)

9781107128446 ¥13,820

Aimed at graduate students and researchers, this fascinating text provides a comprehensive study of the Erdős-Ko-Rado Theorem, with a focus on algebraic methods.

MA-33 【有限状態空間をもつ修理可能セミマルコフシステムの信頼性】

Limnios, N. & B. Ouhbi

Estimation of Reliability of Repairable

Semi-Markov Systems with Finite State Space

Aug 2016 150 ㊦ Hardback (Wiley)

9781848218901 ¥17,280

Semi-Markov models are common modeling tools in the analysis of machines subject to stochastic failures.

MA-34 【保形形式のファミリーとトレース公式】

Müller, W. et al. (eds)

Families of Automorphic Forms and the Trace

Formula (Simons Symposia) Sept 2016

496 ㊦ Hardback (Springer)

9783319414225 ¥32,070

Featuring the work of twenty-three internationally-recognized experts, this volume explores the trace formula, spectra of locally symmetric spaces, p -adic families, and other recent techniques from harmonic analysis and representation theory.

MA-35 【フィボナッチおよびルーカス数と応用、第1巻・第2版】

Koshy, T.

Fibonacci and Lucas Numbers

with Applications, Volume One,

2nd Edition

Sept 2016 656 ㊦

Hardback (Wiley)

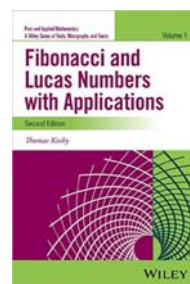
9781118742129 ¥21,600

Fibonacci and Lucas Numbers

with Applications, Volume I,

Second Edition provides a

user-friendly and historical approach to the many fascinating properties of Fibonacci and Lucas numbers, which have intrigued amateurs and professionals for centuries. Offering an in-depth study of the topic, this book includes exciting applications that provide many opportunities to explore and experiment.



MA-36 【有限数学 - モデルと応用】

Morris, C.C. & R.M. Stark

Finite Mathematics: Models and Applications, in 2 vols. Set

Nov 2015 536+Solution Manual ㇏
 Hardback (Wiley) 9781119015536
 ¥25,660

The book features coverage including: Algebra Skills; Mathematics of Finance; Matrix Algebra; Geometric Solutions; Simplex Methods; Application Models; Set and Probability Relationships; Random Variables and Probability Distributions; Markov Chains; Mathematical Statistics; Enrichment in Finite Mathematics

MA-37 【フーリエ解析・第1巻】

Constantin, A.

Fourier Analysis, Volume 1. Theory (London Mathematical Society Student Texts) July

2016 260 ㇏ Hardback (Cambridge U.P.) 9781107044104 ¥20,730

This two-volume text presents a largely self-contained treatment, comprising not just the major theoretical aspects (Part I) but also exploring links to other areas of mathematics and applications to science and technology (Part II).

MA-38 【演算からゼータ関数まで】

Jürgen Sander, Jörn Steuding, Rasa Steuding

From Arithmetic to Zeta-Functions: Number Theory in Memory of Wolfgang Schwarz

Oct. 2016 470 ㇏ Hardback (Springer) 9783319282022 ¥18,800.

This book collects more than thirty contributions in memory of Wolfgang Schwarz, most of which were presented at the seventh International Conference on Elementary and Analytic Number Theory (ELAZ), held July 2014 in Hildesheim, Germany.

MA-39 【関数空間と偏微分方程式・全2巻】

Taheri, A.

Function Spaces and Partial Differential Equations, 2 Vol set (Oxford Lecture Series in Mathematics and Its Applications)

July 2015 992 ㇏ Hardback (Oxford U.P.) 9780198733171 ¥34,770

This is a book written primarily for graduate students and early researchers in the fields of Analysis and Partial Differential Equations (PDEs). Coverage of the material is essentially self-contained, extensive and novel with great attention to details and rigour.

MA-40 【複雑ネットワーク原理】

Chen, Guanrong et al.

Fundamentals of Complex Networks: Models, Structures and Dynamics

June 2015 392 ㇏ Hardback (Wiley) 9781118718117 ¥21,600

Complex networks such as the Internet, WWW, transportation networks, power grids, biological neural networks, and scientific cooperation networks of all kinds provide challenges for future technological development.

MA-41 【ファジーな順序不同システム】

Chakraverty, S. et al.

Fuzzy Arbitrary Order System: Fuzzy Fractional Differential Equations and Applications

Aug 2016 288 ㇏ Hardback (Wiley) 9781119004110 ¥17,270

Complete with comprehensive results and solutions, Fuzzy Arbitrary Order System: Fuzzy Fractional Differential Equations and Applications details newly developed methods of fuzzy computational techniques needed to model solve uncertainty.

MA-42 【ガロア理論と線形差分方程式】

Hardouin, C. et al.

Galois Theories of Linear Difference Equations: An Introduction (Mathematical Surveys and Monographs) Apr 2016

171 ㇏ Hardback (American Mathematical Society) 9781470426552 ¥19,000

This book is a collection of three introductory tutorials coming out of three courses given at the CIMPA Research School "Galois Theory of Difference Equations" in Santa Marta, Columbia, July 23-August 1, 2012.

MA-43 【ゲーム理論 - 古典および進化モデル入門】

Schecter, S. & H. Gintis

Game Theory in Action: An Introduction to Classical and Evolutionary Models

Apr 2016 320 ㇏ Hardback (Princeton U.P.) 9780691167640 ¥13,820

Game Theory in Action is a textbook about using game theory across a range of real-life scenarios. From traffic accidents to the sex lives of lizards, Stephen Schecter and Herbert Gintis show students how game theory can be applied in diverse areas including animal behavior, political science, and economics.

MA-44 【ゲーム理論とその工学的応用】

Bauso, D.

Game Theory with Engineering Applications

(Advances in Design and Control) June 2016
 320 ㉮ Paperback (Cambridge U.P.)
 9781611974270 ¥15,200
 Engineering systems are highly distributed collective systems - decisions, information, and objectives are distributed throughout - that have humans in the loop, and thus decisions may be influenced by socioeconomic factors

MA-45 【幾何解析】

Bray, H.L. et al.
Geometric Analysis (IAS/Park City Mathematics) May 2016 456 ㉮
 Hback (American Mathematical Society) 9781470423131 ¥17,100
 This volume includes expanded versions of the lectures delivered in the Graduate Minicourse portion of the 2013 Park City Mathematics Institute session on Geometric Analysis.

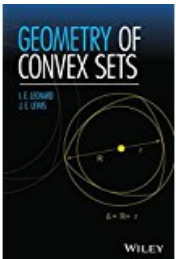
MA-46 【スキャン画像の幾何学的モデルとメッシュ生成】

Zhang, Yongjie Jessica
Geometric Modeling and Mesh Generation from Scanned Images (Chapman & Hall/CRC Mathematical and Computational Imaging Sciences Series) Apr 2016 354 ㉮
 Hback (Chapman & Hall/CRC Pr.) 9781482227765 ¥22,100
 Cutting-Edge Techniques to Better Analyze and Predict Complex Physical Phenomena

MA-47 【多様体の幾何学とトポロジー】

Futaki, A. et al. (eds)
Geometry and Topology of Manifolds: 10th China-Japan Conference 2014 (Springer Proceedings in Mathematics & Statistics, Vol 154) July 2016 348 ㉮ Hback (Springer) 9784431560197 ¥28,180
 Since the year 2000, we have witnessed several outstanding results in geometry that have solved long-standing problems such as the Poincaré conjecture, the Yau-Tian-Donaldson conjecture, and the Willmore conjecture.

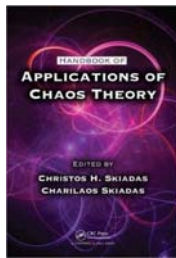
MA-48 【凸集合の幾何学】

Leonard, I.E. & J.E. Lewis

Geometry of Convex Sets Nov 2015 336 ㉮
 Hback (Wiley) 9781119022664 ¥16,400
 Geometry of Convex Sets begins with basic definitions of the concepts of vector addition and scalar multiplication and then defines the notion of convexity for subsets of n-dimensional space

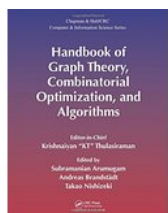
MA-49 【物理学者のための群論の手引き】

Zee, A.
Group Theory in a Nutshell for Physicists Apr 2016 592 ㉮ Hback (Princeton U.P.) 9780691162690 ¥15,550
 Although group theory is a mathematical subject, it is indispensable to many areas of modern theoretical physics, from atomic physics to condensed matter physics, particle physics to string theory.

MA-50 【カオス理論応用ハンドブック】

Skiadas, C.H. & C. Skiadas

Handbook of Applications of Chaos Theory June 2016 934 ㉮ Hback (Chapman & Hall/CRC) 9781466590434 ¥31,540
 Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas. Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications.

MA-51 【グラフ理論、組合せ最適化、アルゴリズムハンドブック】

Thulasiraman, K. "KT"

Handbook of Graph Theory, Combinatorial Optimization, and Algorithms (Chapman & Hall/CRC Computer and Information Science Series) Dec 2015 1226 ㉮
 Hback (CRC Pr.) 9781584885955 ¥23,590
 Handbook of Graph Theory, Combinatorial Optimization, and Algorithms is the first to present a unified, comprehensive treatment of both graph theory and combinatorial optimization.

MA-52 【工学者、科学者のための線形偏微分方程式ハンドブック・第2版】

Polyanin, A.D. & V.E. Nazaikinskii
Handbook of Linear Partial Differential Equations for Engineers and Scientists, Second Edition Jan 2016 1609 ㉮ Hback (Chapman & Hall/CRC) 9781466581456 ¥31,540
 More than 700 pages with 1,500+ new first-, second-, third-, fourth-, and higher-order linear equations with solutions

MA-53 【ロバスト低ランクおよびスパース行列分解ハンドブック】

Bouwmans, Thierry et al.

Handbook of Robust Low-Rank and Sparse Matrix Decomposition: Applications in Image and Video Processing May 2016 520 ㇶ⁻
Hardback (Chapman & Hall/CRC Pr.)
9781498724623 ¥31,540

Handbook of Robust Low-Rank and Sparse Matrix Decomposition: Applications in Image and Video Processing shows you how robust subspace learning and tracking by decomposition into low-rank and sparse matrices provide a suitable framework for computer vision applications.

MA-54 【連続体物理学における双曲型保存則】

Dafermos, C.M.

Hyperbolic Conservation Laws in Continuum Physics, 4th Edition (Grundlehren der mathematischen Wissenschaften, Vol 325)

May 2016 826 ㇶ⁻ Hardback (Springer)
9783662494493 ¥32,070

This is a masterly exposition and an encyclopedic presentation of the theory of hyperbolic conservation laws.

MA-55 【情報幾何学とその応用】

Amari, Shun-ichi

Information Geometry and Its Applications (Applied Mathematical Sciences, Vol 194)

Feb 2016 373 ㇶ⁻ Hardback (Springer)
9784431559771 ¥18,460

This is the first comprehensive book on information geometry, written by the founder of the field.

MA-56 【内挿法および外挿法の最適設計・第1巻】

Celant, G & M. Broniatowski

Interpolation and Extrapolation Optimal Designs Vol 1: Polynomial Regression and Approximation Theory June 2016 284 ㇶ⁻

Hardback (Wiley-ISTE) 9781848219953
¥24,190

This book is the first of a series which focuses on the interpolation and extrapolation of optimal designs, an area with significant applications in engineering, physics, chemistry and most experimental fields.

MA-57 【代数幾何入門】

Welchman, W.G.

Introduction to Algebraic Geometry

July 2016 362 ㇶ⁻ Paperback
(Cambridge U.P.) 9781316601808 ¥8,630

Originally published in 1950 and written by the renowned mathematician, university professor, author and World War II codebreaker W. Gordon

Welchman (1906-85), this textbook contains a treatment of projective geometry and provides a solid introduction to similar studies in space of more than two dimensions.

MA-58 【ランダムグラフ入門】

Alan Frieze, A. & M. Karoński

Introduction to Random Graphs

Feb 2016 478 ㇶ⁻ Hardback (Cambridge U.P.) 9781107118508 ¥13,820

From social networks such as Facebook, the World Wide Web and the Internet, to the complex interactions between proteins in the cells of our bodies, we constantly face the challenge of understanding the structure and development of networks.

MA-59 【オイラー - 啓蒙時代の天才数学者】

Calinge, R.S.

Leonhard Euler: Mathematical Genius in the Enlightenment

Nov 2015 696 ㇶ⁻ Hardback (Princeton U.P.) 9780691119274 ¥9,500

This is the first full-scale biography of Leonhard Euler (1707-83), one of the greatest mathematicians and theoretical physicists of all time.

MA-60 【リー環、リー超代数、頂点代数】

Misra, K.C. et al. (eds)

Lie Algebras, Lie Superalgebras, Vertex Algebras and Related Topics (Proceedings of Symposia in Pure Mathematics) June

2016 355 ㇶ⁻ Hardback

(American Mathematical Society)

9781470418441 ¥20,730

This book contains the proceedings of the 2012-2014 Southeastern Lie Theory Workshop Series held at North Carolina State University in April 2012, at College of Charleston in December 2012, at Louisiana State University in May 2013, and at University of Georgia in May 2014.

MA-61 【抽象数学入門としての線形代数】

Lankham, I. et al.

Linear Algebra as an Introduction to Abstract Mathematics

Jan 2016 208 ㇶ⁻ Hardback (World Scientific) 9789814730358 ¥12,090

This is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular, the concept of proofs in the setting of linear algebra.

MA-62 【量子コンピューティングにおける論理的・代数的構造】

Chubb, J. et al. (eds)

Logic and Algebraic Structures in Quantum Computing (Lecture Notes in Logic)

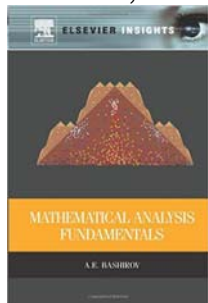
Feb 2016 356 ㊦ Hardback

(Cambridge U.P.) 9781107033399 ¥24,190

Arising from a special session held at the 2010 North American Annual Meeting of the Association for Symbolic Logic, this volume is an international cross-disciplinary collaboration with contributions from leading experts exploring connections across their respective fields.

MA-63 【数理解析原理】

Bashirov, A.



Mathematical Fundamentals of Analysis

June 2016 364 ㊦

Paperback (Elsevier)

9780128102695 ¥26,430

The author's goal is a rigorous presentation of the fundamentals of analysis, starting from elementary level and moving to the advanced

coursework.

MA-64 【数学的文化】

Larvor, B. (ed)

Mathematical Cultures: The London Meetings 2012-2014 (Trends in the History of Science)

June 2016 460 ㊦ Hardback

(Birkhäuser) 9783319285801 ¥28,180

This collection presents significant contributions from an international network project on mathematical cultures, including essays from leading scholars in the history and philosophy of mathematics and mathematics education.

MA-65 【数学的知識と諸実践との相互作用】

Ferreirós, J.

Mathematical Knowledge and the Interplay of Practices

Dec. 2016 360 ㊦ Hardback

(Princeton U.P.) 9780691167510 ¥7,770

This book presents a new approach to the epistemology of mathematics by viewing mathematics as a human activity whose knowledge is intimately linked with practice.

MA-66 【弾性イメージングにおける数学的方法】

Ammari, H. et al.

Mathematical Methods in Elasticity Imaging

Apr 2015 240 ㊦ Hardback

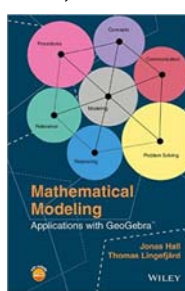
(Princeton U.P.) 9780691165318 ¥11,230

This book is the first to comprehensively explore elasticity imaging and examines recent, important developments in asymptotic imaging,

modeling, and analysis of deterministic and stochastic elastic wave propagation phenomena.

MA-67 【数学的モデリング - GeoGebra での応用】

Hall, J. & T. Lingefjärd



Mathematical Modeling: Applications with GeoGebra

July 2016 568 ㊦

Hardback (Wiley)

9781119102724 ¥21,600

A logical problem-based introduction to the use of GeoGebra for mathematical modeling and problem solving

within various areas of mathematics

MA-68 【数学と芸術 - その文化史】

Gamwel, L.

Mathematics and Art: A Cultural History

Nov 2015 576 ㊦ Hardback

(Princeton U.P.) 9780691165288 ¥8,550

MA-69 【古代エジプトの数学】

Imhause, A.

Mathematics in Ancient Egypt A Contextual History

Feb 2016 248 ㊦ Hardback

(Princeton U.P.) 9780691117133 ¥7,770

MA-70 【最大値原理と幾何学的応用】

Alias, L.J. et al.

Maximum Principles and Geometric Applications (Springer Monographs in Mathematics)

Feb 2016 570 ㊦ Hardback (Springer)

9783319243351 ¥21,380

This monograph presents an introduction to some geometric and analytic aspects of the maximum principle. In doing so, it analyses with great detail the mathematical tools and geometric foundations needed to develop the various new forms that are presented in the first chapters of the book.

MA-71 【モジュラー形式とヘッケ作用素】

Andrianov, A.N. & V. G. Zhuravlev

Modular Forms and Hecke Operators

Jan 2016 334 ㊦ Paperback

(American Mathematical Society)

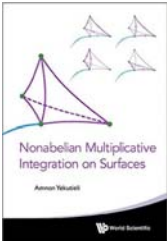
9781470418687 ¥22,290

The concept of Hecke operators was so simple and natural that, soon after Hecke's work, scholars made the attempt to develop a Hecke theory for modular forms, such as Siegel modular forms

MA-72 【移動有限要素法 - 化学工学への応用】
Maria do Carmo Coimbra et al.
**Moving Finite Element Method:
Fundamentals and Applications in Chemical
Engineering**
June 2016 248 ㊦ Hardback (CRC Pr.)
9781498723862 ¥20,360

MA-73 【フレドホルム積分方程式のためのマルチ
スケール法】
Chen, Zhongying et al.
**Multiscale Methods for Fredholm Integral
Equations (Cambridge Monographs on Applied
and Computational Mathematics)**
July 2015 552 ㊦ Hardback (Cambridge
U.P.) 9781107103474 ¥26,780
The recent appearance of wavelets as a new
computational tool in applied mathematics has
given a new impetus to the field of numerical
analysis of Fredholm integral equations.

MA-74 【ネロンモデルと基底変換】
Lars Halvard Halle, L.H. & J. Nicaise
**Néron Models and Base Change (Lecture Notes
in Mathematics, Vol 2156)**
Apr 2016 151 ㊦ Paperback
(Springer) 9783319266374 ¥6,800

MA-75 【曲面の非アーベル乗法的積分】
Yekutieli, A.

**Nonabelian Multiplicative
Integration on Surfaces**
Sept 2015 200 ㊦
Hardback (World Scientific)
9789814663847 ¥12,090
Nonabelian multiplicative
integration on curves is a classical
theory.

MA-76 【非自励線形ハミルトン系】
Johnson, R. et al.
**Nonautonomous Linear Hamiltonian Systems:
Oscillation, Spectral Theory and Control
(Developments in Mathematics, Vol 36)**
Mar 2016 497 ㊦ Hardback
(Springer) 9783319290232 ¥21,380

MA-77 【量子系の非可換数学】
Franz, U. & A. Skalski
**Noncommutative Mathematics for Quantum
Systems (Cambridge IISc Series)**
Jan 2016 125 ㊦ Hardback
(Cambridge U.P.) 9781107148055 ¥17,270
Noncommutative mathematics is a significant
new trend of mathematics

MA-78 【二階非線形楕円方程式】
Han, Qing
**Nonlinear Elliptic Equations of the Second
Order (Graduate Studies in Mathematics)**
Apr 2016 368 ㊦ Hardback
(American Mathematical Society)
9781470426071 ¥15,370
Nonlinear elliptic differential equations are a
diverse subject with important applications to
the physical and social sciences and engineering.

MA-79 【非線形補間法と境界値問題】
Eloe, P.W. & J. Henderson
**Nonlinear Interpolation and Boundary Value
Problems (Trends in Abstract and Applied
Analysis: Volume 2)** Feb 2016 248 ㊦
Hardback (World Scientific)
9789814733472 ¥18,310
This book is devoted to the study of boundary
value problems for nonlinear ordinary differential
equations and focuses on questions related to
the study of nonlinear interpolation

MA-80 【アルゴリズムおよびプログラミングによる
数値解析】
Ray, S.S.
**Numerical Analysis with Algorithms and
Programming** May 2016 685 ㊦
Hardback (Chapman & Hall/CRC)
9781498741743 ¥22,100

MA-81 【微分方程式の数値解法】
Loustau, J.
**Numerical Differential Equations: Theory and
Technique, ODE Methods, Finite Differences,
Finite Elements and Collocation.**
Mar 2016 384 ㊦ Hardback (World
Scientific) 9789814719490 ¥20,560
This text presents numerical differential
equations to graduate (doctoral) students.

MA-82 【逆問題の数値法】
Kern, M.
Numerical Methods for Inverse Problems
June 2016 232 ㊦ Hardback
(Wiley-ISTE) 9781848218185 ¥19,870
This book studies methods to concretely address
inverse problems.

MA-83 【常微分方程式のための数値法・第3版】
Butcher, J.C.
**Numerical Methods for Ordinary Differential
Equations, 3rd Edition**
Aug 2016 544 ㊦ Hardback (Wiley)
9781119121503 ¥20,730

MA-84 【偏微分方程式の数値法】

Ruas, V.

Numerical Methods for Partial Differential Equations: An Introduction

June 2016 300 ㊦ Hardback (Wiley)
9781119111351 ¥17,270

A comprehensive overview of techniques for the computational solution of PDE's

MA-85 【区分確定的マルコフ過程のシミュレーションと最適化のための数値法】

de Saporta, B. et al.

Numerical Methods for Simulation and Optimization of Piecewise Deterministic Markov Processes

Jan 2016 298 ㊦ Hardback (Wiley-ISTE) 9781848218390
¥19,000

Mark H.A. Davis introduced the Piecewise-Deterministic Markov Process (PDMP) class of stochastic hybrid models in an article in 1984.

MA-86 【MATLAB による工学における数値法・第3版】

Kiusalaas, J.

Numerical Methods in Engineering with MATLAB®, 3rd Edition

Oct 2015 430 ㊦ Hardback (Cambridge U.P.)
9781107120570 ¥20,730

MA-87 【順序数定義可能と帰納論】

Kechris, A.S. et al. (eds)



Ordinal Definability and Recursion Theory (The Cabal Seminar, Volume III) (Lecture Notes in Logic)

Jan 2016 552 ㊦ Hardback (Cambridge U.P.)
9781107033405 ¥30,240

The proceedings of the Los Angeles Caltech-UCLA 'Cabal Seminar' were originally published in the 1970s and 1980s.

MA-88 【オリガミの数学 6】

Miura, K. et al.

Origami 6: Mathematics

Jan 2016 368 ㊦ Paperback (American Mathematical Society)
9781470418755 ¥13,650

A unique collection of papers illustrating the connections between origami and a wide range of fields.

MA-89 【偏微分方程式入門】

Shearer, M. & R. Levy

Partial Differential Equations: An Introduction to Theory and Applications

Mar 2015 288 ㊦ Hardback

(Princeton U.P.) 9780691161297 ¥14,680

This textbook provides beginning graduate students and advanced undergraduates with an accessible introduction to the rich subject of partial differential equations (PDEs).

MA-90 【画像修復のための偏微分方程式法】

Schönlieb, C.-B.

Partial Differential Equation Methods for Image Inpainting (Series: Cambridge Monographs on Applied and Computational Mathematics)

Oct 2015 250 ㊦ Hardback (Cambridge U.P.) 9781107001008 ¥17,270

This book is concerned with digital image processing techniques that use partial differential equations (PDE) for the task of image 'inpainting.'

MA-91 【偏光とミュラーマトリックスアプローチ】

Jose Jorge Gil Perez, & Razvigor Ossikovski

Polarized Light and the Mueller Matrix Approach (Series in Optics and Optoelectronics)

May 2016 383 ㊦ Hardback (CRC Pr.)
9781482251555 ¥23,590

MA-92 【ツリーおよびネットワーク上の確率論】

Russell Lyons, R. & Y. Peres

Probability on Trees and Networks (Cambridge Series in Statistical and Probabilistic Mathematics)

Oct 2016 600 ㊦ Hardback (Cambridge U.P.)
9781107160156 ¥13,820

Starting around the late 1950s, several research communities began relating the geometry of graphs to stochastic processes on these graphs.

MA-93 【量子反応の平衡 - ゲームの確率論】

Goeree, K. et al.

Quantal Response Equilibrium: A Stochastic Theory of Games

Aug 2016 288 ㊦ Hardback (Princeton U.P.) 9780691124230 ¥10,360

Quantal Response Equilibrium presents a stochastic theory of games that unites probabilistic choice models developed in psychology and statistics with the Nash equilibrium approach of classical game theory

MA-94 【冪零リー群の量子化】

Fischer, V. & M. Ruzhansky

Quantization on Nilpotent Lie Groups (Progress in Mathematics, Vol 314)

Mar 2016 557 ㊦ Hardback

(Springer) 9783319295572 ¥9,710
This book presents a consistent development of the Kohn-Nirenberg type global quantization theory in the setting of graded nilpotent Lie groups in terms of their representations.


MA-95 【積空間のラムゼー理論】

Dodos, P. & V. Kanellopoulos
Ramsey Theory for Product Spaces (Mathematical Surveys and Monographs)
May 2016 245 ㇰ Hardback
(American Mathematical Society)
9781470428082 ¥19,000
Ramsey theory is a dynamic area of combinatorics that has various applications in analysis, ergodic theory, logic, number theory, probability theory, theoretical computer science, and topological dynamics.

MA-96 【ランダムグラフ、幾何学、漸近構造】

Krivelevich, M. et al.
Random Graphs, Geometry and Asymptotic Structure (London Mathematical Society Student Texts) Aug 2016 127 ㇰ Hardback (Cambridge U.P.)
9781107136571 ¥14,680
The theory of random graphs is a vital part of the education of any researcher entering the fascinating world of combinatorics.

MA-97 【最新の組合せ論】

Beveridge, A. et al. (eds)
**Recent Trends in Combinatorics (The IMA Volumes in Mathematics and its Applications, Vol 159)** Apr 2016 778 ㇰ Hardback (Springer)
9783319242965 ¥33,040

MA-98 【Yule 過程にもとづくリカレントイベントのモデリング】

Le Gat, Y.
Recurrent Event Modeling Based on the Yule Process: Application to Water Network Asset Management Jan 2016 142 ㇰ Hardback (Wiley-ISTE)
9781848218918 ¥17,280

MA-99 【ローラン級数体上のリジッドコホモロジー】

Lazda, C. & A. Pál
Rigid Cohomology over Laurent Series Fields (Algebra and Applications, Vol 21)
Apr 2016 267 ㇰ Hardback (Springer) 9783319309507 ¥18,460
In this monograph, the authors develop a new

theory of p-adic cohomology for varieties over Laurent series fields in positive characteristic, based on Berthelot's theory of rigid cohomology.

MA-100 【MATLAB による科学計算・第2版】

Xue, D. & YangQuan Chen
Scientific Computing with MATLAB, Second Edition Mar 2016 586 ㇰ Hardback (Chapman & Hall/CRC) 9781498757775 ¥15,890

MA-101 【空間解析のためのコンピュータアルゴリズム原理】

Gold, C.
Spatial Context: An Introduction to Fundamental Computer Algorithms for Spatial Analysis May 2016 218 ㇰ Hardback (CRC Pr.) 9781138029637 ¥28,310

MA-102 【非線形力学系の安定領域】

Chiang, Hsiao-Dong & L.F.C. Alberto
Stability Regions of Nonlinear Dynamical Systems: Theory, Estimation, and Applications Oct 2015 484 ㇰ Hardback (Cambridge U.P.)
9781107035409 ¥24,190

MA-103 【無限次元における確率コーシー問題】

Melnikova, I.V.
Stochastic Cauchy Problems in Infinite Dimensions: Generalized and Regularized Solutions Feb 2016 286 ㇰ Hardback (Chapman & Hall/CRC) 9781482210507 ¥15,890

MA-104 【String-Math 2014】

Bouchard, V. et al. (eds)
String-Math 2014 (Proceedings of Symposia in Pure Mathematics) June 2014 396 ㇰ Hardback (American Mathematical Society) 9781470419929 ¥20,730

MA-105 【部分多様体とホロノミー・第2版】

Berndt, J. et al.
Submanifolds and Holonomy, Second Edition (Series: Monographs and Research Notes in Mathematics) Feb 2016 456 ㇰ Hardback (CRC Pr.) 9781482245158 ¥15,890

MA-106 【システムのディペンダビリティ評価】

Aubry, J.-F. et al.
Systems Dependability Assessment: Benefits of Petri Net Models

Feb 2016 282 ㊦ Hback (Wiley-ISTE)
9781848219915 ¥23,320

MA-107 【バナッハ=タルスキーのパラドックス】
Tomkowicz, G. & S. Wagon
**The Banach-Tarski Paradox, 2nd Edition
(Encyclopedia of Mathematics and its
Applications)** June 2016 360 ㊦ Hback
(Cambridge U.P.) 9781107042599 ¥19,000

MA-108 【プレート解析のための境界要素法】
Katsikadelis, J.
**The Boundary Element Method for Plate
Analysis** June 2016 ㊦ Paperback
(Academic Pr.) 9780128101124 ¥29,370

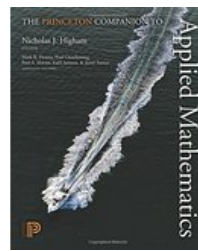
MA-109 【コーシー変換、ポテンシャル論、等角写
像・第2版】
Bell, S.P.
**The Cauchy Transform, Potential Theory and
Conformal Mapping, 2nd Edition**
Nov 2015 209 ㊦ Hback
(Chapman & Hall/CRC) 9781498727204
¥15,890

MA-110 【動的モデル-ラング予想】
Bell, J.P. et al.
**The Dynamical Mordell-Lang Conjecture
(Mathematical Surveys and Monographs)**
Apr 2016 280 ㊦ Hback
(American Mathematical Society)
9781470424084 ¥19,000
The Dynamical Mordell-Lang Conjecture is an
analogue of the classical Mordell-Lang conjecture
in the context of arithmetic dynamics.

MA-111 【分数的ラプラシアン】
Pozrikidis, C.
The Fractional Laplacian
Feb 2016 278 ㊦ Hback
(Chapman & Hall/CRC) 9781498746151
¥14,400
The fractional Laplacian, also called the Riesz
fractional derivative, describes an unusual
diffusion process associated with random
excursions.

MA-112 【不変多様体のパラメーター化法】
Haro, A. et al.
**The Parameterization Method for Invariant
Manifolds: From Rigorous Results to Effective
Computations (Applied Mathematical
Sciences, Vol 195)** Apr 2016 267 ㊦
Hback (Springer)
9783319296609 ¥18,460

MA-113 【プリンストン応用数学への手引き】
Higham, N.J. (ed)



**The Princeton Companion to
Applied Mathematics**
Sept 2015 1032 ㊦
Hback (Princeton U.P.)
9780691150390 ¥17,190
This is the most authoritative
and accessible single-volume
reference book on applied

mathematics.

MA-114 【 $H(b)$ 空間理論】
Fricain, E. & J. Mashreghi
**The Theory of $H(b)$ Spaces. 2
Volume set
(New Mathematical Monographs)**
Aug 2016 1200 ㊦ Hback
in 2Vols. (Cambridge U.P.)
9781107119413 ¥46,650

An $H(b)$ space is defined as a
collection of analytic functions which are in the
image of an operator. The theory of $H(b)$ spaces
bridges two classical subjects: complex analysis
and operator theory, which makes it both
appealing and demanding.

MA-115 【ディオファントス整数論における単数方
程式】
Jan-Hendrik Evertse, J.-H. & K. Györy
**Unit Equations in Diophantine Number
Theory (Cambridge Studies in Advanced
Mathematics)** Dec 2015 378 ㊦
Hback (Cambridge U.P.)
9781107097605 ¥13,820

MA-116 【画像処理における変分法】
Vese, L.A. & C. Le Guyader
**Variational Methods in Image Processing
(Chapman & Hall/CRC Mathematical and
Computational Imaging Sciences Series)**
Dec 2015 386 ㊦ Hback
(Chapman & Hall/CRC) 9781439849736
¥12,660

MA-117 【振動理論と応用 - 有限要素法とアクティ
ブ振動制御】
Palazzolo, A.
**Vibration Theory and Applications with Finite
Elements and Active Vibration Control**
Mar 2016 976 ㊦ Hback (Wiley)
9781118350805 ¥25,050