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「在庫目録オンデマンド」アップ
リアルな在庫情報をエクセル形式の
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詳細 Page 1

Yurinsha Book News

CBMS Regional Conference Series in Mathematics,

Vol. 114: Gross, M.:

450-182

Tropical Geometry and Mirror Symmetry

The text starts with a detailed introduction to the notions of tropical curves and manifolds, and then gives a thorough description of both sides of mirror symmetry for projective space, bringing together material which so far can only be found scattered throughout the literature.

Next follows an introduction to the log geometry of Fontaine-Illusie and Kato, as needed for Nishinou and Siebert's proof of Mikhalkin's tropical curve counting formulas.

This latter proof is given in the fourth chapter.

The fifth chapter considers the mirror, B-model side, giving recent results of the author showing how tropical geometry can be used to evaluate the oscillatory integrals appearing.

The final chapter surveys reconstruction results of the author and Siebert for "integral tropical manifolds."

A complete version of the argument is given in two dimensions.

Feb. 2011

325 pp.

9780821852323

7,070.

Vol. 113: Wolpert, S.:

詳細掲載 Page 3

Families of Riemann Surfaces and Weil-Petersson Geometry

July 2010 118 pp.

9780821849866

4,610.

A. M. S.

<http://www.yurinsha.com>

ホームページは毎月25日更新予定です

No. 450

Dec. 2010

敬理科学 友隣社 洋書専門

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ご提供のお知らせ**

お客様各位

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(株) 友 隣 社

Clay Mathematics Proceedings,

Vol. 12: Carey, A. /Ellwood, D. /Paycha, S. / Rosenberg, S. (eds.): 450-055

**Motives, Quantum Field Theory,
and Pseudodifferential Operators**

This volume contains articles related to the conference "Motives, Quantum Field Theory, and Pseudodifferential Operators" held at Boston University, 2008, with partial support from the Clay Mathematics Inst., Boston Univ., and the National Science Foundation. There are deep but only partially understood connections between the three conference fields, so this book is intended both to explain the known connections and to offer directions for further research. In keeping with the organization of the conference, this book contains introductory lectures on each of the conference themes and research articles on current topics in these fields.

Jan. 2011 349 pp. 11,040.
9780821851999

Fields Institute Communications,

Vol. 59: Neher, E. /Savage, A. /Wang, W. (eds.): 450-091
**Geometric Representation Theory
and Extended Affine Lie Algebras**

This book presents the lectures given at the Fields Institute Summer School on Geometric Representation Theory and Extended Affine Lie Algebras held at the University of Ottawa in 2009. It provides a systematic account by experts of some of the exciting developments in Lie algebras and representation theory in the last two decades.

It includes topics such as geometric realizations of irreducible representations in three different approaches, combinatorics and geometry of canonical and crystal bases, finite W -algebras arising as the quantization of the transversal slice to a nilpotent orbit, structure theory of extended affine Lie algebras, and representation theory of affine Lie algebras at level zero.

Feb. 2011 217 pp. 12,280.
9780821852378

Graduate Studies in Mathematics,

Vol. 119: Korostelev, A. /Korosteleva, O.: 450-222
**Mathematical Statistics:
Asymptotic Minimax Theory**

This book is designed to bridge the gap between traditional textbooks in statistics and more advanced books that include the sophisticated nonparametric techniques. It covers topics in parametric and nonparametric large-sample estimation theory.

The exposition is based on a collection of relatively simple statistical models. It gives a thorough mathematical analysis for each of them with all the rigorous proofs and explanations.

The book also includes a number of helpful exercises. Prerequisites for the book include senior undergraduate/beginning graduate-level courses in probability and statistics.

Feb. 2011 243 pp. 7,810.
9780821852835

Vol. 118: Smith, H. /Thieme, H.: 450-154
Dynamical Systems and Population Persistence
Jan. 2011 411 pp. 9780821849453 9,300.

A. M. S.

Graduate Studies in Mathematics,

Vol. 111: Brendle, S.: 450-169
Ricci Flow and the Sphere Theorem

In 1982, R. Hamilton introduced a nonlinear evolution equation for Riemannian metrics with the aim of finding canonical metrics on manifolds. This evolution equation is known as the Ricci flow, and it has since been used widely and with great success, most notably in Perelman's solution of the Poincare conjecture.

Furthermore, various convergence theorems have been established. This book provides a concise introduction to the subject as well as a comprehensive account of the convergence theory for the Ricci flow. The proofs rely mostly on maximum principle arguments. Special emphasis is placed on preserved curvature conditions, such as positive isotropic curvature.

Feb. 2010 176 pp.
 9780821849385 6,260.

Vol. 19: Evans, L.: 450-123
Partial Differential Equations, 2nd ed.

This is the second edition of the now definitive text on partial differential equations (PDE).

It offers a comprehensive survey of modern techniques in the theoretical study of PDE with particular emphasis on nonlinear equations.

Its wide scope and clear exposition make it a great text for a graduate course in PDE. For this edition, the author has made numerous changes, including *a new chapter on nonlinear wave equations, *more than 80 new exercises, *several new sections, *a significantly expanded bibliography.

"I use Partial Differential Equations to prepare my students for their Topic exam, which is a requirement before starting working on their dissertation. The book provides an excellent account of PDE's ... I am very happy with the preparation it provides my students.

--Carlos Kenig, University of Chicago"

Apr. 2010 749 pp.
 9780821849743 11,570.

CBMS Regional Conference Series in Mathematics,

Vol. 113: Wolpert, S.: 450-101
**Families of Riemann Surfaces and
 Weil-Petersson Geometry**

This book is the companion to the CBMS lectures of Scott Wolpert at Central Connecticut State University. The lectures span across areas of research progress on deformations of hyperbolic surfaces and the geometry of the Weil-Petersson metric. The book provides a generally self-contained course for graduate students and postgraduates.

The exposition also offers an update for researchers; material not otherwise found in a single reference is included.

A unified approach is provided for an array of results.

The exposition covers Wolpert's work on twists, geodesic-lengths and the Weil-Petersson symplectic structure; Wolpert's expansions for the metric, its Levi-Civita connection and Riemann tensor.

The exposition also covers Brock's twisting limits, visual sphere result and pants graph quasi isometry, as well as the Brock-Masur-Minsky construction of ending laminations for Weil-Petersson geodesics.

July 2010 118 pp.
 9780821849866 4,610.

A. M. S.

Progress in Mathematics,

**Vol. 283: El Zein, F. /Suciu, A. /Tosun, M. /Uludag, M. /
Yuzvinsky, S. (eds.):**

**Arrangements, Local Systems and Singularities:
CIMPA Summer School, 450-063
Galatasaray University, Istanbul, 2007**

This volume comprises the Lecture Notes of the CIMPA/TUBITAK Summer School Arrangements, Local systems and Singularities held at Galatasaray University, Istanbul during June 2007.

The volume is intended for a large audience in pure mathematics, including researchers and graduate students working in algebraic geometry, singularity theory, topology and related fields.

The reader will find a variety of open problems involving arrangements, local systems and singularities proposed by the lecturers at the end of the school.

Jan. 2010

319 pp.

9783034602082

15,830.

**Vol. 279: Ceyhan, O. /Manin, Y. /Marcolli, M. (eds.):
Arithmetic and Geometry around Quantization**

In recent decades, quantization has led to interesting applications in various mathematical branches. 450-057

This volume, comprised of research and survey articles, discusses key topics, including symplectic and algebraic geometry, representation theory, quantum groups, the geometric Langlands program, quantum ergodicity, and non-commutative geometry. A wide range of topics related to quantization are covered, giving a glimpse of the broad subject.

The articles are written by distinguished mathematicians in the field and reflect subsequent developments following the Arithmetic and Geometry around Quantization conference held in Istanbul.

List of Contributors: S. Akbulut, R. Hadani, S. Arkhipov, K. Kremnizer, O. Ceyhan, S. Mahanta, E. Frenkel, S. Salur, K. Fukaya, G. Ben Simon, D. Gaitsgory, W. van Suijlekom, S. Gurevich.

June 2010

292 pp.

9780817648305

19,130.

**Vol. 270: Tschinkel, Y. /Zarhin, Y. (eds.):
Algebra, Arithmetic and Geometry, Vol. II:
In Honor of Y. I. Manin**

*Broad collection of topics reveals Y. I. Manin's wide range of research and influence *The subjects covered range from 450-099

mathematical logic to theoretical physics

Algebra, Arithmetic, and Geometry: In Honor of Yu. I. Manin consists of invited expository and research articles on new developments arising from Manin's outstanding contributions to mathematics.

Contributors in the second volume: M. Harris, D. Kaledin, M. Kapranov, N.M. Katz, R.M. Kaufmann, J. Kollar, M. Kontsevich, M. Larsen, M. Markl, L. Merel, S.A. Merkulov, M.V. Movshev, E. Mukhin, J. Nekovar, V.V. Nikulin, O. Ogievetsky, F. Oort, D. Orlov, A. Panchishkin, I. Penkov, A. Polishchuk, P. Sarnak, V. Schechtman, V. Tarasov, A.S. Tikhomirov, J. Tsimerman, K. Vankov, A. Varchenko, A. Vishik, A.A. Voronov, Yu. Zarhin, Th. Zink.

Apr. 2010

701 pp.

9780817647469

18,690.

Vol. 269: Tschinkel, Y. /Zarhin, Y. (eds.)

詳報掲載 No. 098

Algebra, Arithmetic and Geometry, Vol. I: In Honor of Y. I. Manin

Apr. 2010

698 pp.

9780817647445

18,690.

Birkhauser

Friedman, G. /Hunsicker, E. / 450-066

Libgober, A. /Maxim, L. (eds.):

Topology of Stratified Spaces

Appearance of singularities is pervasive in many problems in topology, differential geometry, and algebraic geometry.

This book concerns the study of singular spaces using techniques from a variety of areas of geometry and topology and the interactions among them.

Expository chapters by well-known experts cover intersection homology, L2 cohomology and differential operators, topology of algebraic varieties, signatures and characteristic classes, mixed Hodge theory, and elliptic genera of singular complex and real algebraic varieties.

The book concludes with a list of open problems.

Jan. 2011

452 pp.

9780521191678

10,640.

Cambridge Mathematical Library

Huybrechts, D. /Lehn, M.: 450-186

The Geometry of**Moduli Spaces of Sheaves, 2nd ed.**

Now back in print, this highly regarded book has been updated to reflect recent advances in the theory of semistable coherent sheaves and their moduli spaces, which include moduli spaces in positive characteristic, moduli spaces of principal bundles and of complexes, Hilbert schemes of points on surfaces, derived categories of coherent sheaves, and moduli spaces of sheaves on Calabi-Yau threefolds.

The authors review changes in the field since the publication of the original edition in 1997 and point the reader towards further literature.

References have been brought up to date and errors removed.

Developed from the authors' lectures, this book is ideal as a text for graduate students as well as a valuable resource for any mathematician with a background in algebraic geometry who wants to learn more about Grothendieck's approach.

July 2010

325 pp.

9780521134200

5,600.

Encyclopedia of Mathematics and its Applications,

Vol. 135: Berthe, V. /Rigo, M. (eds.): 450-046

Combinatorics, Automata, and Number Theory

This collaborative volume presents recent trends arising from the fruitful interaction between the themes of combinatorics on words, automata and formal language theory, and number theory.

Presenting several important tools and concepts, the authors also reveal some of the exciting and important relationships that exist between these different fields.

Topics include numeration systems, word complexity function, morphic words, Rauzy tilings and substitutive dynamical systems, Bratelli diagrams, frequencies and ergodicity, Diophantine approximation and transcendence, asymptotic properties of digital functions, decidability issues for DOL systems, matrix products and joint spectral radius.

Topics are presented in a way that links them to the three main themes, but also extends them to dynamical systems and ergodic theory, fractals, tilings and spectral properties of matrices.

Aug. 2010

615 pp.

9780521515979

15,210.

Cambridge

Jerison, D. /Mazur, B. /Mrowka, T. /Schmid, R. /
Stanley, R. /Yau, S.-Y. (eds.): 450-011
CDM 2009:

Current Developments in Mathematics, 2009

Papers based on selected lectures given at the Current Development
Mathematics Conference, held in November 2009 at Harvard University.

Table of Contents: * Survey on the fundamental lemma Ngo Bao Chau

* The Arf-Kervaire problem in algebraic topology: an introduction Michael A. Hill,
Michael J. Hopkins, and Douglas C.

* Ravenel Phase transitions, minimal surfaces, and a conjecture of de Giorgi O. Savin

* Recent developments in mathematical quantum chaos Steve Zelditch

Nov. 2010

204 pp.

9781571461469

7,250.

Jerison, D. /Mazur, B. /Mrowka, T. /
Schmid, W. /Stanley, R. /Yau, S.-T. (eds.):
CDM 2008: Current Developments in Mathematics, 2008
Oct. 2009 454 pp. 9781571461391 8,010.

Gao, D. /Motreanu, D. (eds.): 450-007
Handbook of

Nonconvex Analysis and Applications

The present volume, Handbook of Nonconvex Analysis and Applications,
consists of thirteen chapters written by notable experts in the field,
addressing essential recent developments in nonconvex analysis and
its applications, and keeping a balance between major areas of theory,
methods, and applications.

Each chapter provides an illuminating exposition of state-of-the-art
approaches to a specific topic, with discussions of the central contributions,
and pointers to some basic references.

A variety of topics regarding nonconvex analysis and its applications are
discussed: nonconvex variational principles; comparison principles;
nonlinear eigenvalue problems; critical point theory; boundary value
problems; topological methods, including Morse theory; nonlinear elliptic
equations; evolution problems; difference equations; inequality problems;
geometric properties of functions and spaces; and applications in mechanics.
This Handbook will serve as a much-needed reference work for
the dynamic and ever-growing field of nonconvex analysis and its applications.

Nov. 2010

680 pp.

9781571462008

11,040.

Coates, J. /Yau, S.-T.: 2010 Re-Issue ed. 450-059
Elliptic Curves, Modular Forms and
Fermat's Last theorem, 2nd ed.

The conference, held at the Chinese University of Hong Kong, on
which these proceedings are based was organized in response to
Andrew Wiles' conjecture that every elliptic curve over \mathbb{Q} is modular.
The final difficulties in the proof of the conjectural upper bound for
the order of the Selmer group attached to the symmetric square of a modular
form, have since been overcome by Wiles with the assistance of R. Taylor.
The proof that every semi-stable elliptic curve over \mathbb{Q} is modular is not
only significant in the study of elliptic curves, but also due to the earlier
work of Frey, Ribet, and others, completes a proof of Fermat's last theorem.
New paperback re-issue of the revised second edition.

Mar. 2010

344 pp.

9781571461858

3,600.

International Press

*Lecture Notes in Mathematics,***Vol. 2014: Audin, M.:**

450-002

Fatou, Julia, Montel:**The Great Prize of Mathematical Sciences of 1918, & Beyond**
(1st Edition. Translation of the French Original Version)

How did Pierre Fatou and Gaston Julia create what we now call Complex Dynamics, in the context of the early twentieth century and especially of the First World War?

The book is based partly on new, unpublished sources. Who were Pierre Fatou, Gaston Julia, Paul Montel? New biographical information is given on the little known mathematician that was Pierre Fatou. How did the serious injury of Julia during WWI influence mathematical life in France?

From the reviews of the French edition: "Audin's book is indeed filled with marvelous biographical information and analysis, dealing not just with the men mentioned in the book's title but a large number of other players, too. The book under review addresses itself to scholars for whom the history of mathematics has a particular resonance and especially to mathematicians active, or even with merely an interest in, complex dynamics. It presents it all to the reader in a very appealing form."

(Michael Berg, The Mathematical Association of America, October, 2009)

Feb. 2011

329 pp.

9783642178535

12,100.

Vol. 2013: Bobenko, A. / Klein, C. (eds.):

450-049

Computational Approach to Riemann Surfaces

This volume offers a well-structured overview of existent computational approaches to Riemann surfaces and those currently in development.

The authors of the contributions represent the groups providing publically available numerical codes in this field.

Thus this volume illustrates which software tools are available and how they can be used in practice.

In addition examples for solutions to partial differential equations and in surface theory are presented. The intended audience of this book is twofold. It can be used as a textbook for a graduate course in numerics of Riemann surfaces, in which case the standard undergraduate background, i.e., calculus and linear algebra, is required.

Feb. 2011

260 pp.

9783642174124

7,780.

*Encyclopaedia of Mathematical Sciences,***Vol. 139: Campbell, H. / Wehlau, D.:**

450-054

Modular Invariant Theory

This book covers the modular invariant theory of finite groups, the case when the characteristic of the field divides the order of the group.

It explains a theory that is more complicated than the study of the classical non-modular case, and it describes many open questions.

Largely self-contained, the book develops the theory from its origins up to modern results. It explores many examples, illustrating the theory and its contrast with the better understood non-modular setting.

It details techniques for the computation of invariants for many modular representations of finite groups, especially the case of the cyclic group of prime order. It includes detailed examples of many topics as well as a quick survey of the elements of algebraic geometry and commutative algebra as they apply to invariant theory.

Feb. 2011

233 pp.

9783642174032

15,560.

Springer

*Trends in Logic,***Vol. 34: Leitsch, A./Baaz, M.:**

450-035

Methods of Cut-Elimination

This book on methods of cut-elimination contains a thorough and rigorous analysis of reductive cut-elimination methods and an in-depth presentation of the recent method CERES developed by the authors. It includes a detailed complexity analysis and comparison of CERES and of reductive methods.

It presents several applications of CERES --- to interpolation, fast cut-elimination, generalization of proofs and to the analysis of mathematical proofs. Finally, it provides an extension of CERES to non-classical logics, in particular to finitely-valued logics and to Godel logic.

Jan. 2011

295 pp.

9789400703193

17,290.

*Springer Texts in Statistics***Shumway, R./Stoffer, D.:**

450-236

**Time Series Analysis and Its Applications:
with R Examples, 3rd ed.**

Time Series Analysis and Its Applications presents a balanced and comprehensive treatment of both time and frequency domain methods with accompanying theory.

Numerous examples using nontrivial data illustrate solutions to problems such as discovering natural and anthropogenic climate change, evaluating pain perception experiments using functional magnetic resonance imaging, and monitoring a nuclear test ban treaty.

The book is designed to be useful as a text for graduate level students in the physical, biological and social sciences and as a graduate level text in statistics.

Jan. 2011

596 pp.

9781441978646

15,560.

*Use R***Robinson, A./Hamann, J.:**

450-233

**Forest Analytics with R:
An Introduction**

Forest Analytics with R combines practical, down-to-earth forestry data analysis and solutions to real forest management challenges with state-of-the-art statistical and data-handling functionality. The authors adopt a problem-driven approach, in which statistical and mathematical tools are introduced in the context of the forestry problem that they can help to resolve. All the tools are introduced in the context of real forestry datasets, which provide compelling examples of practical applications.

The modeling challenges covered within the book include imputation and interpolation for spatial data, fitting probability density functions to tree measurement data using maximum likelihood, fitting allometric functions using both linear and non-linear least-squares regression, and fitting growth models using both linear and non-linear mixed-effects modeling.

Table of contents: Introduction.- Forest data management.- Data analysis for common inventory methods.- Imputation and Interpolation.- Fitting dimensional distributions.- Linear and non-linear models.- Fitting linear hierarchical models.- Simulations.- Forest estate planning and optimization.

Jan. 2011

354 pp.

9781441977618

8,640.

Springer

Gallier, J.:

450-034

Discrete Mathematics

This book begins with a presentation of the rules of logic as used in mathematics where many examples of formal and informal proofs are given. With this logical framework firmly in place, the book describes the major axioms of set theory and introduces the natural numbers. The rest of the book deals with functions and relations, directed and undirected graphs and an introduction to combinatorics, partial orders and complete induction. There is a section on public key cryptography and RSA, with complete proofs of Fermat's little theorem and the correctness of the RSA scheme, as well as explicit algorithms to perform modular arithmetic. The last chapter provides more graph theory where Eulerian and Hamiltonian cycles are discussed.

Mar. 2011
9781441980465.490 pp.
10,370.*Lecture Notes in Physics,*

Vol. 827: Diosi, L.:

450-284

A Short Course in
Quantum Information Theory:
An Approach From Theoretical Physics, 2nd ed.

This short and concise primer takes the vantage point of theoretical physics and the unity of physics.

It sets out to strip the burgeoning field of quantum information science to its basics by linking it to universal concepts in physics.

An extensive lecture rather than a comprehensive textbook, this volume is based on courses delivered over several years to advanced undergraduate and beginning graduate students, but essentially it addresses anyone with a working knowledge of basic quantum physics.

For the second edition, the authors has succeeded in adding many new topics while sticking to the conciseness of the overall approach.

A new chapter on qubit thermodynamics has been added, while new sections and subsections have been incorporated in various chapter to deal with weak and time- continuous measurements, period-finding quantum algorithms and quantum error corrections.

Nov. 2010
9783642161162150 pp.
6,050.

Vol. 826: Dewitt, B.:

450-283

Bryce DeWitt's Lectures on Gravitation

Bryce DeWitt, a student of Nobel Laureate Julian Schwinger, was himself one of the towering figures in 20th century physics, particularly renowned for his seminal contributions to quantum field theory, numerical relativity and quantum gravity.

In late 1971 DeWitt gave a course on gravitation at Stanford University, leaving almost 400 pages of detailed handwritten notes.

Written with clarity and authority, and edited by his former student Steven Christensen, these timeless lecture notes, containing material or expositions not found in any other textbooks, are a gem to be discovered or re-discovered by anyone seriously interested in the study of gravitational physics.

Nov. 2010
9783540369097320 pp.
12,100.**Springer**

Maitra, S.:

450-086

Boolean Functions**Cryptographic and Combinatorial Properties**

This book discusses cryptographic and combinatorial properties of Boolean functions. Boolean functions are very easy to understand (but deep in analysis) and the subject covers significant amount of material in digital circuits, communication theory, VLSI design, computer science, coding theory and Mathematics.

Boolean function is considered as one of the most basic building blocks in cryptographic system design.

The properties that make a Boolean function suitable for a cryptographic system, are mostly combinatorial.

We discuss these properties (e.g., balancedness, nonlinearity, correlation immunity, propagation characteristics, algebraic immunity) in detail.

For each of the properties, existing research results and the recent contributions in the literature will be presented.

Apr. 2011

420 pp.

9789814327138

12,150.

*IISc Lecture Notes Series,***Vol. 2: Kang-Tae Kimet /Lee, H.:**

450-137

**Schwarz's Lemma from
a Differential Geometric Viewpoint**

The subject matter in this volume is Schwarz's Lemma which has become a crucial theme in many branches of research in mathematics for more than a hundred years to date.

This volume of lecture notes focuses on its differential geometric developments by several excellent authors including, but not limited to, L Ahlfors, S S Chern, Y C Lu, S T Yau and H L Royden.

This volume can be approached by a reader who has basic knowledge on complex analysis and Riemannian geometry. It contains major historic differential geometric generalizations on Schwarz's Lemma and provides the necessary information while making the whole volume as concise as ever.

Contents: Mean-Value Properties Maximum Principles A Quick Introduction to Hermitian Geometry Classical Schwarz's Lemma Poincare Distance and Metric General Schwarz's Lemma by Ahlfors, Chern?Lu, Yau, Royden and Others Almost Maximum Principle Chern-Lu Formula Very Recent Developments on Differential Geometric Schwarz's Lemma

Dec. 2010

98 pp.

9789814324786

6,200.

Gilbert, G. /Hamrick, M. /Weinstein, Y.:

450-268

Quantum Cryptography

This book provides a detailed account of the theory and practice of quantum cryptography.

Suitable as the basis for a course in the subject at the graduate level, it crosses the disciplines of physics, mathematics, computer science and engineering.

The theoretical and experimental aspects of the subject are derived from first principles, and attention is devoted to the practical development of realistic quantum communications systems.

The book also includes a comprehensive analysis of practical quantum cryptography systems implemented in actual physical environments via either free-space or fiber-optic cable quantum channels.

Apr. 2011

250 pp.

9789812839343

10,910.

World Scientific Pub.

Aspects of Mathematics,

Vol. 41: Marcolli, M. /Parashar, D. (eds.): 450-087
**Quantum Groups and
 Noncommutative Spaces**

This book aims to present different methods and perspectives in the theory of quantum groups and to provide a bridge between the algebraic, representation-theoretic, analytic, and differential-geometric approaches.

It also covers recent developments in noncommutative geometry which have close relations to quantization and quantum group symmetries.

The volume includes surveys by experts.

The surveys originated from an activity at the Max Planck Institute for Mathematics in Bonn.

*Table of Contents: Contributions by Tomasz Brzezinski, Branimir Cacic, Rita Fioresi, Rita Fioresi and Fabio Gavarini, Debashish Goswami, Christian Kassel, Avijit Mukherjee, Alfons Van Daele, Robert Wisbauer, and Alessandro Zampini

Jan. 2011 240 pp. 8,640.
 9783834814425

Vol. 40: Abbaspour, H. /Marcolli, M. /Tradler, T.: 450-039
**Deformation Spaces:
 Perspectives on algebro-geometric moduli**

The first instances of deformation theory were given by Kodaira and Spencer for complex structures and by Gerstenhaber for associative algebras.

Since then, deformation theory has been applied as a useful tool in the study of many other mathematical structures, and even today it plays an important role in many developments of modern mathematics.

This volume collects a few self-contained and peer-reviewed papers by experts which present up-to-date research topics in algebraic and motivic topology, quantum field theory, algebraic geometry, noncommutative geometry and the deformation theory of Poisson algebras.

They originate from activities at the Max-Planck-Institute for Mathematics and the Hausdorff Center for Mathematics in Bonn.

June 2010 173 pp. 6,710.
 9783834812711

Advanced Lectures in Mathematics

Gortz, U. /Wedhorn, T.: 450-071
**Algebraic Geometry, Part I:
 Schemes. with Examples and Exercises**

This book introduces the reader to modern algebraic geometry.

It presents Grothendieck's technically demanding language of schemes that is the basis of the most important developments in the last fifty years within this area.

A systematic treatment and motivation of the theory is emphasized, using concrete examples to illustrate its usefulness.

The two example classes of Hilbert modular surfaces and determinantal varieties are used methodically to discuss the covered techniques.

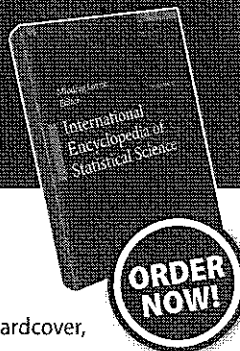
Thus the reader experiences that the further development of the theory yields an ever better understanding of these fascinating objects.

The text is complemented by many exercises that serve to check the comprehension of the text, treat further examples, or give an outlook on further results.

June 2010 << Aug. 2009 615 pp. << 300 pp.
 9783834806765 10,370.

Vieweg

International Encyclopedia of Statistical Science



Miodrag Lovric (Ed.)

1st Edition., 2011, LVIII, 1852 p.

In 3 volumes, not available separately., Hardcover,

ISBN: 978-3-642-04897-5

► EUR 799.00

About this encyclopedia: _____

► Includes contributions by distinguished statisticians and educators from around the world Offers quick, comprehensive and highly accessible information on statistical terms, methods and applications Stimulates interest in statistics education in both developed and developing countries

The goal of this book is multidimensional: a) to help reviving Statistics education in many parts in the world where it is in crisis. For the first time authors from many developing countries have an opportunity to write together with the most prominent world authorities. The editor has spent several years searching for the most reputable statisticians all over the world. International contributors are either presidents of the local statistical societies, or head of the Statistics department at the main university, or the most distinguished statisticians in their countries. b) to enable any non-statistician to obtain quick and yet comprehensive and highly understandable view on certain statistical term, method or application c) to enable all the researchers, managers and practitioners to refresh their knowledge in Statistics, especially in certain controversial fields. d) to revive interest in statistics among students, since they will see its usefulness and relevance in almost all branches of Science.

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