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International Press of Boston, Inc. is an academic publishing company founded in 1992. After twenty years of growth, International Press now publishes nineteen journals in various fields of academic mathematics research, including a journal of statistics. International Press also publishes high-level mathematics and mathematical physics book titles, including monographs, textbooks, and more.

Having close ties to the Chinese mathematics community, International Press has also developed a close partnership with Higher Education Press of Beijing—the leading Chinese curriculum planner, and publisher and distributor of academic books—as well as with the Chinese publishers Tsinghua University Press, Hunan Science and Technology Press, and others.

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RECENT PUBLICATIONS

Open Problems and Surveys of Contemporary Mathematics
(Surveys of Modern Mathematics, Vol. 6)
Edited by Lizhen Ji, Yat-Sun Poon, and Shing-Tung Yau

Open problems are essential to the health and development of every subject of mathematics, and new theories are often born in attempts to solve them.

The current volume notably presents lecture notes of Shing-Tung Yau of Harvard University—based on his extensive recent lecture series in Taiwan and Beijing—upon several open problems in differential geometry. In these lectures Yau explores the history, motivation, and connections of the problems discussed.

Also presented in this volume are current open problems and recent survey papers by contemporary mathematicians including Murad Alim, David Baraglia, Arnaud Beauville, Eric King-wah Chu, Joris van Hoboken, Lizhen Ji, Wen-Wei Lin, James S. Milne, and Nanhua Xi.

This volume is a valuable reference for both beginners and experts.

Softcover. 477 pages.
ISBN: 978-1-57146-278-7
Release date: 3 December 2013
List price: $58.00.

Edited by Selman Akbulut, Denis Auroux, and Turgut Önder

Lively and engaging articles from the lecturers and the participants of the 19th Gökova Geometry-Topology Conference, held on the shores of Gökova Bay, Turkey, in May of 2012.

Table of Contents
1. Lectures on the equivalence of Heegaard Floer and Seiberg–Witten Floer homologies (C. Kutluhan)
2. The combinatorics of Morse theory with boundary (J. M. Bloom)
3. Instantons in $G_2$ manifolds from J-holomorphic curves in coassociative submanifolds (N. C. Leung, X. Wang, and K. Zhu)
4. Locally conformally flat and self-dual structures on simple 4-manifolds (M. Kalafat)
5. Tube formula for self-similar fractals with non-Steiner-like generators (A. Deniz, S. Koçak, Y. Özdemir, and A. R. Üreyen)
6. Crowell’s state space is connected (D. S. Durusoy)

Softcover. 153 pages.
ISBN: 978-1-57146-270-1
Release date: 8 May 2013
List price: $69.00

Lectures on the Analysis of Nonlinear Partial Differential Equations: Part 3
(Morningside Lectures in Mathematics, Vol. 3)
Edited by Fanghua Lin (Courant Institute of Mathematical Sciences, New York University) and Ping Zhang (Academy of Mathematics and Systems Sciences, Chinese Academy of Sciences)

This volume presents some of the most recent progress in the mathematical theory of fluid mechanics. The eight papers herein originated in a series of seminars held in 2011 at the Chinese Academy of Sciences in Beijing. Among them are Nicolas Burq on the wellposedness of the water wave problem with rough data, Jean-Yves Chemin on the wellposedness of the Navier-Stokes system, and Isabelle Gallagher on the semiclassical limit of a geostrophic system.

This third volume of the series is a good reference for those working on nonlinear partial differential equations, especially as applied to fluid mechanics equations and micro-local analysis.

Softcover. 393 pages.
ISBN: 978-1-57146-267-1
Release date: 28 February 2013
List price: $58.00.
Edited by Huai-Dong Cao and Shing-Tung Yau

This volume includes papers presented by several speakers at the Geometry and Topology conferences at Harvard University in 2011 and at Lehigh University in 2012.

Included are works by Simon Brendle, on the Lagrangian minimal surface equation and related problems; by Sergio Cecotti and Cumrun Vafa, concerning classification of complete $N=2$ supersymmetric theories in four dimensions; by F. Reese Harvey and H. Blaine Lawson Jr., on existence, uniqueness, and removable singularities for non-linear PDEs in geometry; by János Kollár, concerning links of complex analytic singularities; by Claude LeBrun, on Calabi energies of extremal toric surfaces; by Mu-Tao Wang, concerning mean curvature flows and isotopy problems; and by Steve Zelditch, on eigenfunctions and nodal sets.

Hardcover. 308 pages.
Release date: 28 May 2013
List price: $85.00.

Current Developments in Mathematics, 2012

Edited by David Jerison, Mark Kisin, Tomasz Mrowka, Richard Stanley, Horng-Tzer Yau, and Shing-Tung Yau

The Current Developments in Mathematics (CDM) conference is an annual seminar, jointly hosted by Harvard University and the Massachusetts Institute of Technology, and devoted to surveying the most recent developments in all areas of mathematics. The CDM selection committee consists of three professors from Harvard University and three from the Massachusetts Institute of Technology; each committee member is prominent and working in the forefront of mathematics. In choosing lecturers for each conference, the committee members take a broad look at the various areas of mathematics, and select lecturers who are not only prominent specialists in their fields, but also transcend classical perceptions within their fields.

International Press is pleased to bring you selected lectures from each CDM conference, in our Current Developments in Mathematics book series. This most recent volume includes papers based on selected lectures given at the Current Development Mathematics Conference, held in November 2012 at Harvard University.

Table of Contents
1. Classifying automorphic representations (James Arthur)
2. Universality for random matrices and log-gases (László Erdős)
3. Mirror symmetry and the Strominger-Yau-Zaslow conjecture (Mark Gross)
4. Perfectoid spaces: A survey (Peter Scholze)
5. Duality, statistical mechanics, and random matrices (Thomas Spencer)

Softcover. 260 pages.
ISBN: 978-1-57146-240-4
Release date: 12 November 2013
List price: $48.00.
Semi-Classical Analysis
By Victor Guillemin (Massachusetts Institute of Technology) and Shlomo Sternberg (Harvard University)

There are a number of excellent texts available on semi-classical analysis. The focus of the present monograph, however, is an aspect of the subject somewhat less systematically developed in other texts: In semi-classical analysis, many of the basic results involve asymptotic expansions in which the terms can be computed by symbolic techniques, and the focus of this monograph is the “symbol calculus” created thus. In particular, the techniques involved in this symbolic calculus have their origins in symplectic geometry, and the first seven chapters of the present work are a discussion of this underlying symplectic geometry.

Another feature which differentiates this monograph from other texts is an emphasis on the global aspects of the subject: A considerable amount of time is spent here showing that the objects studied are coordinate-invariant and hence make sense on manifolds. Wherever possible, intrinsic coordinate-free descriptions of these objects are given.

Topics discussed include wave and heat trace formulas for globally defined semi-classical differential operators on manifolds, and equivariant versions of these results involving Lie group actions.

Softcover. 446 pages.
ISBN: 978-1-57146-276-3
Release date: 11 October 2013
List price: $59.00.

Generalized Serre-Tate Ordinary Theory
By Adrian Vasiu (Binghamton University, New York)

Abelian varieties are projective and connected group varieties. They are of fundamental importance to the study of all projective smooth varieties over fields. In the late 1960s, Serre and Tate developed a deformation theory of abelian varieties over fields of positive characteristic, and introduced several ways to identify the generic ones, which are called ordinary abelian varieties.

This monograph provides a comprehensive generalization of the Serre and Tate theory of ordinary abelian varieties and their deformation spaces. This generalization deals with abelian varieties equipped with additional structures. The additional structures can be not only a classical action of a semi-simple algebra and a polarization, but can also be, more generally, the data given by some “crystalline Hodge cycles” (i.e., a crystalline version of a Hodge cycle in the sense of motives). Compared to Serre–Tate ordinary theory, new phenomena appear in the generalized setting. The generalized theory is presented both in abstract contexts of F-crystals endowed with reductive groups and minuscule Hodge co-characters, and in geometric contexts provided by good moduli spaces of abelian varieties endowed with additional strictures, which are called integral canonical models of Shimura varieties of Hodge type. This monograph studies the generalized notions of ordinariness from multiple points of view, such as Newton polygons, canonical lifts, formal Lie groups, complex multiplications, etc.

Researchers and graduate students working in related areas, such as arithmetic algebraic geometry and number theory, will find this monograph truly valuable due to its comprehensive nature and general setting, which provide key new tools for tackling numerous other problems pertaining to all integral canonical models of Shimura varieties of Hodge type.

Softcover. 243 pages.
ISBN: 978-1-57146-277-0
Release date: 11 October 2013
List price: $39.00.
Index Theory with Applications to Mathematics and Physics
By David D. Bleecker and Bernhelm Boß-Bavnbek
Hardcover. 792 pages.
ISBN: 978-1-57146-264-0
Release date: 4 October 2013
List price: $95.00

Index Theory with Applications to Mathematics and Physics describes, explains, and explores the Index Theorem of Atiyah and Singer, one of the truly great accomplishments of twentieth-century mathematics whose influence continues to grow, fifty years after its discovery. The Index Theorem has given birth to many mathematical research areas and exposed profound connections between analysis, geometry, topology, algebra, and mathematical physics. Hardly any topic of modern mathematics stands independent of its influence.

In this ambitious new work, authors David Bleecker and Bernhelm Boß-Bavnbek give two proofs of the Atiyah-Singer Index Theorem in impressive detail: one based on K-theory and the other on the heat kernel approach. As a preparation for this, the authors explain all the background information on such diverse topics as Fredholm operators, pseudo-differential operators, analysis on manifolds, principal bundles and curvature, and K-theory—carefully and with concern for the reader. Many applications of the theorem are given, as well as an account of some of the most important recent developments in the subject, with emphasis on gauge theoretic physical models and low-dimensional topology.

Comments and Reviews

Readers from a wide range of backgrounds will find much to learn here.
Edward Witten
Institute for Advanced Studies, Princeton, New Jersey

This titanic book (almost 800 pages) is something of a marvel ... [it] can be read with great profit by strong graduate students in differential geometry, global analysis, operator theory, and so on, and provides a wonderful resource for seasoned scholars in these fields given its encyclopedic scope. Additionally, there is a strong historical dimension to the book, which makes for a heightened experience and a deeper understanding...
Michael Berg (For MAA Reviews)
Loyola Marymount University, Los Angeles, Calif.

Professors Bleecker and Booss-Bavnbek have followed ... developments in index theory from the beginning, and made original contributions of their own... Assuming only basic analysis and algebra, [this book] gives detailed constructions and proofs for all the necessary concepts, along with illuminating digressions on the various paths through the rich territory of index theory.
Robert Seeley
Professor Emeritus, University of Massachusetts, Boston

...written with ambition, wit, and (mathematical) eloquence...
Yuri I. Manin
Max Planck Institute for Mathematics, Bonn, Germany

Students of mathematics and physics will find this book to be an excellent resource for study of this vast subject. In particular, attention is given to exposition of the subject from different angles, which is very helpful as a bridge between physics and mathematics.
Cumrun Vafa
Donner Professor of Science, Physics Department, Harvard University

A valuable reference for theoretical and mathematical physicists...
Franco Strocchi
Scuola Normale Superiore, Pisa, Italy

David D. Bleecker, Ph.D. (University of California at Berkeley under S.-S. Chern) taught on the faculty of the Department of Mathematics at the University of Hawaii, Manoa, for more than thirty years, and is now retired. He is known for his work in differential geometry and gauge-theoretic physics. He is also known to a larger audience as a textbook author of unrivaled care for details. Among his student textbooks are the widely-read Basic Partial Differential Equations (International Press, 1996) with George Csordas; the more advanced Gauge Theory and Variational Principles; and this book’s predecessor with Bernhelm Boß-Bavnbek, Topology and Analysis: The Atiyah-Singer Index Formula and Gauge-Theoretic Physics.

Bernhelm Boß-Bavnbek, Ph.D. (Universität Bonn under F. Hirzebruch) is senior lecturer in mathematics and mathematical modeling with the Mathematics-Physics Group IMFüFA at Roskilde University (Denmark), where he has been for more than thirty years. He is known for his work in global analysis and spectral geometry. He is also known to a larger audience as a textbook author and editor with lively interest in a broad sweep of mathematics, applications of mathematics, and communication about mathematics. Among his research monographs are the now-classic treatise Elliptic boundary problems for Dirac operators, co-written with Krzysztof Wojciechowski; the volume Mathematics and War, with Jens Høyrup as co-editor; and this book’s first German-language predecessor, Topologie und Analysis – Eine Einführung in die Atiyah-Singer-Indexformel.
ADVANCED LECTURES IN MATHEMATICS (ALM) BOOK SERIES

Published jointly by International Press and by Higher Education Press of China, the Advanced Lectures in Mathematics (ALM) series brings the latest mathematical developments worldwide to both researchers and students. Each volume consists of either an expository monograph or a collection of significant introductions to important topics. The ALM series emphasizes discussion of the history and significance of each topic discussed, with an overview of the current status of research, and presentation of the newest cutting-edge results.

Volume 27: Number Theory and Related Areas
Edited by Yi Ouyang, Chaoping Xing, Fei Xu, and Pu Zhang

The papers comprising this volume explore various fields of number theory, including: the congruent property of solutions of quadratic Diophantine equations, K-groups over the ring of integers of number fields, L-functions of global function fields, automorphic forms, p-adic representations, and more. Applications of number theory, as in design and coding theory, are also explored. The research found in this volume can be seen as a reflection of the influence of Professor Keqin Feng upon the development of number theory studies in China, and this volume is therefore dedicated to him.

Number Theory and Related Areas is a valuable reference for experts in these fields, as well as an excellent introduction for graduate students.

Softcover. 240 pages.
Release date: July 2013
List price: $70.00.

Volumes 24, 25, and 26: Handbook of Moduli (Volumes I, II, and III)
Edited by Gavril Farkas (Humboldt-Universität, Berlin) and Ian Morrison (Fordham University, New York)

The Handbook of Moduli, comprising three volumes, offers a multi-faceted survey of a rapidly developing subject aimed not just at specialists but at a broad community of producers of algebraic geometry, and even at some consumers from cognate areas. The thirty-five articles in the Handbook, written by fifty leading experts, cover nearly the entire range of the field. They reveal the relations between these many threads and explore their connections to other areas of algebraic geometry, number theory, differential geometry, and topology. The goals of the Handbook are to introduce the techniques, examples, and results essential to each topic, and to say enough about recent developments to provide a gateway to the primary sources. Many articles are original treatments commissioned to bridge gaps in the literature and to make important problems accessible to a wide audience for the first time, and many others illustrate yugas and heuristics that experts use privately to guide intuition or simplify calculation, but that do not appear in published work aimed at other specialists.

Release date: March 2013
List price: $90.00 (per individual volume)
$200.00 (three-volume set)
Volume 23: Recent Developments in Geometry and Analysis
Edited by Yuxin Dong (Fudan University), Jixiang Fu (Fudan University), Guozhen Lu (Wayne State University), Weimin Sheng (Zhejiang University), and Xiaohua Zhu (Peking University)

This volume presents research papers in differential geometry, geometric analysis and partial differential equations. The authors are researchers at the forefront of their fields, and the results presented here illuminate some of the most recent developments therein.

Softcover. 522 pages.
Release date: January 2013
List price: $85.00.

Edited by Yibing Shen, Zhongmin Shen, and Shing-Tung Yau

The editors dedicate this volume to the late S.-S. Chern, one of the great mathematicians of the twentieth century, and a leader in the field of differential geometry. Chern made seminal advances in areas such as web geometry, integral geometry, complex geometry, Riemannian geometry, and Finsler geometry. He is well-known for the Chern-Simons theory, the Chern-Weil theory, and Chern classes. His brilliant research and teaching have exerted a deep and lasting influence on mathematics.

Presented herein are survey papers by mathematicians from around the world, particularly from China, who review the present state of the areas in which Chern worked, and discuss the various directions which those fields will take in the future. This collection contains valuable information useful to graduate students and researchers.

Softcover. 336 pages.
ISBN: 978-1-57146-249-7
Release date: July 2012
List price: $85.00.

Volume 21: Advances in Geometric Analysis
Edited by Stanislaw Janeczko, Jun Li, and Duong H. Phong

This volume covers some of the most recent and important developments in geometry and theoretical physics today. Topics include Monge-Ampère equations, Kähler-Ricci flows, and other fully non-linear elliptic and parabolic equations; canonical metrics in Kähler geometry; notions of quasi-local mass in general relativity and geometric properties of gauge theories; and new algebro-geometric and symplectic methods. The topics are all at the interface of several major branches of mathematics (geometry, analysis, and mathematical physics), and they are written by many of the most respected authorities in their fields worldwide. Topics of particular interest within this volume are:


2. The Kähler-Ricci flow on singular Calabi-Yau varieties, construction of Calabi-Yau metrics on Kummer surfaces, and small deformations of constant scalar curvature Kähler manifolds.

3. New methods for solutions of Einstein’s field equations with singularities, numerical properties of the new quasilocal mass in general relativity, framework and history of the Chern conjecture for isoparametric hypersurfaces in spheres, geometry of minimal energy Yang-Mills connections on bundles over manifolds of special holonomy.

4. The space of cyclic covers of a fixed topological type between complex projective curves and its irreducibility in the case of smooth curves and stable curves, categorical approach to the theory of manifolds with corners with applications to symplectic geometry, parametric singularities and their symplectic invariants, the global braid monodromy factorization of the branch curves of a surface.

Softcover. 342 pages.
ISBN: 978-1-57146-248-0
Release date: July 2012
List price: $85.00.
Vol. 20: Surveys in Geometric Analysis and Relativity

Edited by Hubert L. Bray (Duke University) and William P. Minicozzi II (Johns Hopkins University)

This volume presents twenty-three selected survey articles on central topics of geometric analysis and general relativity, written by prominent experts in the fields. Topics of geometric analysis include: the Yamabe problem, mean curvature flow, minimal surfaces, harmonic maps, Ricci flow, gluing and desingularization constructions, function theory, collapsing of manifolds, Kähler-Einstein metrics, asymptotic geometry of complete manifolds, and the geometry of Teichmüller spaces. General relativity topics include: the positive mass theorem, the Penrose inequality, scalar curvature and Einstein's constraint equations, quasi-local mass functionals, the topology of higher dimensional black holes, and the positive mass theorem for asymptotically hyperbolic manifolds.

This volume is dedicated to Richard Schoen—in honor of his contributions to both geometric analysis and general relativity. It is intended for both researchers and graduate students working in those fields.

Softcover. 546 pages. With eight pages of color photographs.
Release date: 31 December 2011
List price: $85.00.

Vol. 19: Arithmetic Geometry and Automorphic Forms

Edited by James Cogdell (Ohio State University at Columbus), Jens Funke (Durham University), Michael Rapoport (Universität Bonn), and Tonghai Yang (University of Wisconsin at Madison)

Throughout his career, Stephen Kudla has done significant work in the fields of representation theory, automorphic forms, number theory, and arithmetic geometry.

In this Festschrift volume celebrating Kudla’s sixtieth birthday, we present papers from many of the students, collaborators, and colleagues that were influenced by him. The papers in this volume, taken together, give the reader a sense of the current state of the several fields to which Kudla has contributed over the years, and suggest new avenues of future exploration.

Softcover. 557 pages. With four pages of color photographs.
ISBN: 978-1-57146-229-9
Release date: 31 December 2011
List price: $85.00.

Vol. 18: Geometry and Analysis, No. 2

Edited by Lizhen Ji (University of Michigan, Ann Arbor)

Presented herein are parts 3 and 4 of a collection of substantial papers presented by distinguished speakers at the conference “Geometric Analysis: Present and Future,” held at Harvard University in 2008. Among the speakers were Edward Witten, Yum-Tong Siu, Richard Hamilton, Nigel Hitchin, Blaine Lawson, Andrew Strominger, Cumrun Vafa, Wilfried Schmid, Victor Guillemin, Ngaiming Mok, and Demetrios Christodoulou. Also included is an overview of the works of Shing-Tung Yau.

This volume serves well as both a reference and up-to-date summary of geometric analysis and its applications to many different areas of mathematics.

Softcover. 563 pages.
ISBN: 978-1-57146-225-1
Release date: 15 July 2011
List price: $85.00.
Presented herein are parts 1 and 2 of a collection of substantial papers presented by distinguished speakers at the conference “Geometric Analysis: Present and Future,” held at Harvard University in 2008. Among the speakers were Edward Witten, Yum-Tong Siu, Richard Hamilton, Nigel Hitchin, Blaine Lawson, Andrew Strominger, Cumrun Vafa, Wilfried Schmid, Victor Guillemin, Ngaiming Mok, and Demetrios Christodoulou. Also included is an overview of the works of Shing-Tung Yau.

This volume serves well as both a reference and up-to-date summary of geometric analysis and its applications to many different areas of mathematics.

Softcover. 542 pages. 4 pages of color photographs.
ISBN: 978-1-57146-224-4
Release date: 15 July 2011
List price: $85.00.

Transformation groups have played a fundamental role in many areas of mathematics such as differential geometry, geometric topology, algebraic topology, algebraic geometry, and number theory. One of the basic reasons for their importance is that symmetries are described by groups (or rather, by group actions). Quotients of smooth manifolds by group actions are usually not smooth manifolds. On the other hand, if the actions of the groups are proper, then the quotients are orbifolds. An important example is given by the action of the mapping class groups on Teichmüller spaces: The quotients give the moduli spaces of Riemann surfaces (or algebraic curves) and are orbifolds.

Softcover. 299 pages.
ISBN: 978-1-57146-223-7
Release date: 15 July 2011
List price: $75.00.

Rational lattices occur throughout mathematics, as in quadratic forms, sphere packing, Lie theory, and integral representations of finite groups. Studies of high-dimensional lattices typically involve number theory, linear algebra, codes, combinatorics, and groups. This book presents a basic introduction to rational lattices and finite groups, and to the deep relationship between these two theories.

Robert L. Griess, Jr. is a Professor of Mathematics at the University of Michigan and has received various honors including a Guggenheim fellowship, an invited lecture at the International Congress of Mathematicians, membership in the American Academy of Arts and Sciences, and the 2010 AMS Leroy P. Steele Prize for his seminal construction of the Monster group.

Softcover. 251 pages.
ISBN: 978-1-57146-206-0
List price: $55.00.

Geometric Analysis combines differential equations and differential geometry. An important aspect is to solve geometric problems by studying differential equations. Besides some known linear differential operators such as the Laplace operator, many differential equations arising from differential geometry are nonlinear. Applications to geometric problems have also motivated new methods and techniques in differential equations. This handbook of geometric analysis—the third to be published in the ALM series—provides introductions to and surveys of important topics in geometric analysis and their applications to related fields. It can be used as a reference by graduate students and researchers.

Softcover. 472 pages. 4 pages of color photographs.
Published: August 2010
List price: $65.00.
Vol. 12: Cohomology of Groups and Algebraic K-theory

Edited by Lizhen Ji, Kefeng Liu, and Shing-Tung Yau

Cohomology of groups is a fundamental tool in many subjects of modern mathematics. One important generalized cohomology theory is the algebraic K-theory. Indeed, algebraic K-groups of rings are important invariants of the rings and have played important roles in algebra, topology, number theory, etc. This volume consists of expanded lecture notes from a 2007 seminar at Zhejiang University in China, at which several leading experts presented introductions, to and surveys of, many aspects of cohomology of groups and algebraic K-theory, along with their broad applications. Two foundational papers on algebraic K-theory by Daniel Quillen are also included.

Softcover. 517 pages.
Published: March 2010
List price: $65.00.

Vol. 11: Recent Advances in Geometric Analysis

Edited by Yng-Ing Lee (National Taiwan University), Chang-Shou Lin (National Chung Cheng University), and Mao-Pei Tsui (University of Toledo)

This volume presents an account of recent advances in geometric analysis and related topics, including Ricci flow, affine normal flow, geometric analysis on pseudo-convex hypersurfaces, Alexandrov space, manifolds with special holonomy, and the singular plateau problem. These papers, many by leading experts in the field, are drawn from lectures presented at the 2007 International Conference in Geometric Analysis, held at Taiwan University. The present volume is intended for both researchers and graduate students studying geometric analysis and related areas.

Softcover. 229 pages.
ISBN: 978-1-57146-143-8
Published: March 2010
List price: $50.00.

Vol. 10: Trends in Partial Differential Equations

Edited by Baojun Bian (Tongji University), Shenghong Li (Zhejiang University), and Xu-Jia Wang (The Australian National University)

In a career of nearly sixty years of mathematical research, Guangchang Dong’s influence on the development of partial differential equations in China has been immense, at both teaching and research levels. To celebrate Prof. Dong’s eightieth birthday, an international conference called Elliptic and Parabolic Equations and Applications was held in August 2008 at Zhejiang University in Hangzhou, China. This volume presents fifteen papers in all—some drawn from lectures given at the conference, others by his friends and former students.

Softcover. 527 pages.
ISBN: 978-1-57146-142-1
Published: March 2010
List price: $65.00.
Vol. 9: Automorphic Forms and the Langlands Program
Edited by Lizhen Ji, Kefeng Liu, Shing-Tung Yau, and Zhu-Jun Zheng

Classical modular forms on the upper half plane, with respect to the modular group $SL(2,\mathbb{Z})$ and its congruence subgroups, have arisen naturally in number theory, complex analysis, topology, mathematical physics, and many other subjects. The closely related automorphic representations are basic notions in the celebrated Langlands program, which was proposed by Langlands in the late 1960s and has since revolutionized the fields of number theory, arithmetic algebraic geometry, and representation theory. This volume consists of expanded lecture notes from a 2007 international conference in Guangzhou, China, at which several leading experts in number theory presented introductions to, and surveys of, many aspects of automorphic forms and the Langlands program.

Softcover. 319 pages.
ISBN: 978-1-57146-141-4
Published: March 2010
List price: $55.00.

Vol. 8: Recent Developments in Algebra and Related Areas
Edited by Chongying Dong (University of California, Santa Cruz) and Fu-an Li (Chinese Academy of Sciences: Academy of Mathematics and Systems Science)

This volume contains fifteen articles presented at the International Conference on Algebra and Related Areas held at Tsinghua University, Beijing, in August 2007. Some are surveys and others are research papers on topics including: algebraic geometry, combinatorics, coding theory, Lie algebras, representation theory of finite groups and algebraic groups, and vertex operator algebras, with their applications. This volume is intended for researchers and graduate students in algebra and related areas.

Softcover. 317 pages.
Published: February 2009
List price: $58.00.

Vol. 7: Handbook of Geometric Analysis, No. 1
Edited by Lizhen Ji, Peter Li, Richard Schoen, and Leon Simon

Geometric Analysis combines differential equations and differential geometry, an important aspect of geometric analysis being the solution of geometric problems by studying differential equations. Besides some known linear differential operators such as the Laplace operator, many differential equations arising from differential geometry are nonlinear. A particularly important example is the Monge-Ampère equation. Applications to geometric problems have also motivated new methods and techniques in differential equations. The field of geometric analysis is broad and has had many striking applications.

The Handbooks of Geometric Analysis—published as volumes within the ALM book series—provide introductions to and surveys of such topics in geometric analysis, and explore their applications to related fields. The Handbooks can be used as references by graduate students and researchers.

Hardcover. 676 pages.
ISBN: 978-1-57146-130-8
List price: $97.00.

Vol. 6: Geometry, Analysis and Topology of Discrete Groups
Edited by Lizhen Ji (University of Michigan), Kefeng Liu (University of California at Los Angeles), Lo Yang (Chinese Academy of Sciences, Academy of Mathematics and Systems Science), and Shing-Tung Yau (Harvard University)

This volume presents 15 papers treating discrete groups as they occur in areas such as algebra, analysis, geometry, number theory, and topology. Most of the papers are surveys, and the volume is intended to help graduate students and researchers better understand the structures and applications of discrete subgroups of Lie groups and locally symmetric spaces.

Hardcover. 468 pages.
ISBN: 978-1-57146-126-1
Published: August 2008
List price: $89.00.
Vol. 4: Variational Principles for Discrete Surfaces
Edited by Junfei Dai, Xianfeng David Gu, and Feng Luo

A complete treatment of the vast, and expansively developed, field of polyhedral geometry. This new volume introduces readers to some of the current topics of research in the geometry of polyhedral surfaces, with applications to geometric modeling, computer graphics, computer vision, medical imaging, visualization, scientific computation, and many other engineering fields.

The current volume presents lectures from the important String Theory International Conference held in 2002 in Hangzhou, China. These include talks given by several mathematicians of particular prominence in the field, among them Stephen Hawking and Edward Witten.

Softcover. 348 pages.
Published: August 2008
List price: $45.00.

Vol. 3: Computational Conformal Geometry
Edited by Xianfeng David Gu and Shing-Tung Yau

Computational conformal geometry is an emerging inter-disciplinary field, with applications to algebraic topology, differential geometry and Riemann surface theories applied to geometric modeling, computer graphics, computer vision, medical imaging, visualization, scientific computation, and many other engineering fields.

This new volume presents thorough introductions to the theoretical foundations—as well as to the practical algorithms—of computational conformal geometry. These have direct applications to engineering and digital geometric processing, including surface parameterization, surface matching, brain mapping, 3-D face recognition and identification, facial expression and animation, dynamic face tracking, mesh-spline conversion, and more.

Hardcover. 295 pages.
ISBN: 978-1-57146-171-1
Published: July 2008
List price: $89.00.

Vol. 1: Superstring Theory
Edited by Kefeng Liu, Shing-Tung Yau, and Chongyuan Zhu

Interest in string theory is driven largely by the hope that it will evolve to be the ultimate “Theory of Everything.” Work on string theory has led to advances in many branches of mathematics. This rapidly developing subject is one of the mainstream topics of mathematics in the 21st century.

The current volume presents lectures from the important String Theory International Conference held in 2002 in Hangzhou, China. These include talks given by several mathematicians of particular prominence in the field, among them Stephen Hawking and Edward Witten.

Softcover. 348 pages.
Published: August 2008
List price: $45.00.
Series Editors
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The Morningside Center of Mathematics, at the Chinese Academy of Sciences in Beijing, carefully selects research topics in basic mathematics, applied mathematics and computational mathematics fields, and invites world-class mathematicians and outstanding scholars to give lectures and to conduct collaborative research.

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Volumes in the Series

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Description: This volume presents some of the most recent progress in the mathematical theory of fluid mechanics. The eight papers herein originated in a series of seminars held in 2011 at the Chinese Academy of Sciences in Beijing. Among them are Nicolas Burq on the wellposedness of the water wave problem with rough data, Jean-Yves Chemin on the wellposedness of the Navier-Stokes system, and Isabelle Gallagher on the semiclassical limit of a geostrophic system. This third volume of the series is a good reference for those working on nonlinear partial differential equations, especially as applied to fluid mechanics equations and micro-local analysis.
Published: February 2013
List price: $58.00
ISBN: 978-1-57146-267-1

Fanghua Lin, Xueping Wang and Ping Zhang, eds.
Description: In this volume, we present lectures by Marco Cannone on harmonic analysis and Navier-Stokes equations with application to the Boltzmann equation; by Chongsheng Cao and Jiahong Wu on global regularity theory for the incompressible magnetohydrodynamic type equations; by Eduard Feireisl on scale analysis of complete fluid systems; by Thierry Goudon on diffusion asymptotics in radiative transfer and astrophysics; by Jean-Claude Saut on asymptotic models for internal waves; by Zhongwei Shen on the Calderón-Zygmund lemma; and by Vsevolod A. Solonnikov on the stability of uniformly rotating viscous incompressible self-gravitating liquid. We hope that these lectures may serve as valuable references, providing up-to-date descriptions of current developments in various related research topics, that will benefit young researchers or graduate students.
Published: June 2012
List price: $58.00
ISBN: 978-1-57146-238-1

Volume 1. Lectures on the Analysis of Nonlinear Partial Differential Equations: Part 1
Fanghua Lin, Xueping Wang and Ping Zhang, eds.
Description: In this volume we present lectures by M. C. Lopes concerning the boundary layers of incompressible fluid flow; by C. J. Xu on the micro-local analysis and its applications to the regularities of kinetic equations; by Y. X. Zheng on the weak solutions of variational wave equation from liquid crystals; and by P. Zhang and Z. F. Zhang on the free boundary problem of Euler equations. In addition, we also included lectures by F. Nier on the hypoellipticity of Fokker-Planck operator and Witten-Laplace operator.
Published: March 2012
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Series Editors
Shing-Tung Yau (Harvard University)

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Description: This volume honors the 85th birthday of our
friend and teacher Isadore Singer. We organized a conference to honor this event in May of 2009. The lectures were given at the Massachusetts Institute of Technology and at Harvard University. Included are papers by many of the speakers, and contributions from friends of Is.

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Volume 2. Proceedings of the conference on geometry and topology held at Harvard University, April 23-25, 1993
C.-C. Hsiung and Shing-Tung Yau, eds. (Softcover, 456 pages.)
First Published: 1995
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Volume 1. Proceedings of the conference on geometry and topology held at Harvard University, April 27-29, 1990 and sponsored by Lehigh University
H. Blaine Lawson, Jr. and Shing-Tung Yau, eds. (Softcover, 310 pages.)
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Mathematics has developed to a very high level and continues to progress rapidly. An essential characteristic of modern study and research is a strong interaction between the various areas of mathematics—an interaction fruitful and beautiful in its results. It is crucial to educate new generations of mathematicians about important existing theory together with new developments in mathematics, and in the process to give students a basis for grasping this interconnectivity of mathematics.

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by Lizhen Ji, Yat-Sun Poon, and Shing-Tung Yau. Softcover, 477 pages.
Description: Open problems are essential to the health and development of every subject of mathematics, and new theories are often born in attempts to solve them.

The current volume notably presents lecture notes of Shing-Tung Yau of Harvard University—based on his extensive recent lecture series in Taiwan and Beijing—upon several open problems in differential geometry. In these lectures Yau explores the history, motivation, and connections of the problems discussed.

Also presented in this volume are current open problems and recent survey papers by contemporary mathematicians including Murad Alim, David Baraglia, Arnaud Beauville, Eric King-wah Chu, Joris van Hoboken, Lizhen Ji, Wen-Wei Lin, James S. Milne, and Nanhua Xi.

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by Li Guo (Rutgers University at Newark). 226 pages, Softcover.
Description: A Rota-Baxter algebra is an associative algebra together with a linear operator that satisfies an identity abstracted from the integration by part formula in calculus. The study of Rota-Baxter algebra originated from the probability study conducted by Glenn Baxter in 1960, and was developed further by Cartier and the school of Rota during the 1960s and 1970s. Independently, beginning in the 1980s, this structure appeared in the Lie algebra context as the operator form of the classical Yang-Baxter equation. Since the late 1990s, Rota-Baxter algebra has experienced a quite remarkable renascence, leading to important theoretical developments and applications in mathematical physics, operads, number theory, and combinatorics. Most papers on Rota-Baxter algebra have been published during the last ten years. This monograph is the first on Rota-Baxter algebra written by a leading expert in this fascinating area, introducing the reader to three aspects of Rota-Baxter algebra, and providing plentiful examples and applications, with a complete bibliography.
Published: December 2012
List price: $58.00
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Volume 2. Lie Theory and Representation Theory
Naihong Hu (East China Normal University), Bin Shu (East China Normal University) and Jianpan Wang (East China Normal University), eds. Softcover, 219 pages.
Description: This volume is based upon the lecture notes of a summer school and workshop held in 2009 at East China Normal University, and consists of papers dealing with various areas of Lie theory and representation theory. Topics include: recent developments in representations of Lie superalgebras, with an explanation of how Lie superalgebras of types gl and osp provide a natural framework for generalized Schur and Howe dualities; combinatorial and geometric aspects of representation theory of finite group schemes; recent developments in the representation theory and cohomology theory of reductive algebraic groups; and the theory of D-modules and its application to representations of Lie algebras.
Published: June 2012
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Volume 3. Application of Elementary Differential Geometry to Influence Analysis
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Volume 1. Analytic Methods in Algebraic Geometry
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Description: This volume is an expansion of lectures given by the author at the Park City Mathematics Institute (Utah) in 2008, and on other occasions. The purpose of this volume is to describe analytic techniques useful in the study of questions pertaining to linear series, multiplier ideals, and vanishing theorems for algebraic vector bundles. The author aims to be concise in his exposition, assuming that the reader is already somewhat acquainted with the basic concepts of sheaf theory, homological algebra, and complex differential geometry. In the final chapters, some very recent questions and open problems are addressed—such as results related to the finiteness of the canonical ring and the abundance conjecture, and results describing the geometric structure of Kähler varieties and their positive cones.
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The GGT conferences have been supported by TUBITAK since their inception, and since 2005 have also received partial funding from the National Science Foundation.

In May of the year following each GGT conference, International Press publishes its proceedings in a volume of the Proceedings of the Gökova Geometry-Topology Conference series, each a fully refereed publication.

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Softcover, 148 pages.
Description: This volume contains Borgeois’ notes from his mini-course on contact homology, and an expository article on the solution of the celebrated Arf-Kerviere invariant problem by Hill, Hopkins, and Ravenel, as well as some new research articles.
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Description: Among the articles in this volume are a self-contained account of integrable systems, a survey on group actions, and research articles on deformation theory, 4-manifolds and symplectic topology (e.g., a construction of a non-Kahler Calabi-Yau manifold).
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Published: 1994
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Ravi S. Kulkarni (Indian Institute of Technology, Mumbai (Bombay), India)

Series Description

The Ramanujan Mathematical Society (RMS) was founded in 1985 to “promote mathematics at all levels.” Inspired by the great Indian mathematician Srinivasa Ramanujan (Dec. 22, 1887—April 26, 1920), the society facilitates conferences, publications, and research fellowships in both the Indian and the international academic communities. In the Ramanujan Lecture Notes Series, International Press is pleased to feature lectures and monographs from the RMS’s conferences on important developments in mathematics, held in Mysore, India.

Volumes in the Series

Volume 16. Symmetry: A Multi-Disciplinary Perspective
Inder Bir S. Passi, ed. Softcover, 129 pages.
Description: The notion of symmetry is fundamental in all sciences, and indeed in all human intellectual endeavors. Its essence is captured through an abstract mathematical treatment based on the Theory of Groups. A symposium with focus on the notion of symmetry as developed from a mathematical perspective and its interconnections with various other disciplines was held at the transit campus of the Institute of Science, Education, and Research Mohali during February 2010. With a view to make the deliberations at the Symposium available to a wider audience, it was decided to publish the proceedings as a volume which can serve as a supplementary reading for science students at undergraduate and post-graduate levels. It is expected that the articles by the leading experts in their respective fields will serve as a basis for designing instructional material aimed at exhibiting the unity of science. Perceptive readers will find numerous ideas which can be pursued as research projects.
Published: May 2012
List price: $25.00

Volume 15. Number Theory
M. Manickam and B. Ramakrishnan, eds. Softcover, 141 pages.
Description: This volume represents the proceedings of the International Conference on Number Theory and Applications held during December 2006 and organized in the Ramakrishna Mission Vivekananda College, Chennai. Both of the editors were graduate students of Professor T. C. Vasudevan at the Vivekananda College and subsequently decided to honor him by bringing out the proceedings of this conference on his sixtieth birthday (during 2007). They invited articles from some of the speakers of the conference and also from among the well-wishers in the mathematical community. All of the twelve articles recieved were refereed by experts in this field.
Published: May 2012
List price: $26.00
ISBN: 978-1-57146-246-6

Volume 14. Ramanujan Rediscovered
Bruce C. Berndt, Shaun Cooper, Nayandeep Deka, Tim Huber and Michael J. Schlosser, eds. Softcover, 199 pages.
Description: In June 2009, a conference in number theory was held on the campus of Infosys in Bangalore. The impetus for organizing this meeting was to recognize and commemorate K. Venkatachaliengar, an outstanding, well-known mathematician, who taught primarily at universities in Bangalore and Mysore for most of his career. He was born on December 8, 1908, and so the meeting marked the centenary of Venkatachaliengar’s birth. In the last several decades of his long life of 95 years, KV, as he was affectionately known to most of his friends, had become keenly interested in the life and work of India’s greatest mathematician, Srinivasa Ramanujan, and so it was natural for Ramanujan’s first loves of theta functions, partitions, and q-series to be the focus of the conference. Accordingly, over 50 mathematicians gathered for the presentation of 32 lectures in memory of both Ramanujan and KV. This volume comprises 13 papers by mathematicians who lectured at the meeting. In addition, three papers on the life and work of KV, along with a complete list of his publications, are offered.
Published: May 2012
List price: $34.00
Volume 13. Advances in discrete mathematics and applications
B. D. Acharya, G. O. H. Katona and Juarez Nešetril eds.
Softcover, 252 pages.
Published: January 2011
List price: $35.00

Volume 12. The Iwasawa theory of totally real fields
J. Coates, C. S. Dalawat, A. Saikia and R. Sujatha, eds.
Softcover, 140 pages.
Published: January 2011
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ISBN: 978-1-57146-219-0

Volume 11. Perspectives in geometry and topology
P. Sankaran, A. R. Shastri and P. Zvengrowski, eds.
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Published: March 2010
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Volume 1. Number theory
Softcover, 172 pages.
Published: March 2010
List price: $25.00
**Textbooks**

**Analysis I and Analysis II**  
By Claus Gerhardt (Ruprecht-Karls-Universitet)

These are both parts of a two-volume introduction to analysis based on the author’s undergraduate courses at Heidelberg: Analysis I, II, and III, and a more advanced course, Tensor Analysis. The contents range from elementary calculus to fairly advanced topics in functional analysis, measure theory and differential geometry.

*Analysis I* covers some fundamental concepts of logic, set theory and the real numbers, the convergence of sequences and series in the real line, Euclidean spaces as well as Banach spaces, topological concepts including continuity, compactness and connectedness, differentiation in one variable, the theorems of Arzela-Ascoli and Stone-Weierstraß and analytic functions in several variables, as well as the Riemann integral. This book can be used as a textbook, it comprises materials for a one and a half semester course.

*Analysis II* comprises materials for a four-semester course, and can also be used as a textbook. Topics covered include: Elements of functional analysis, differentiation in Banach spaces, the fundamental existence theorems in analysis, ordinary differential equations, Lebesgue’s theory of integration, tensor analysis, and the theory of submanifolds in semi-Riemannian spaces. *Analysis II* is intended for graduate students or for very motivated undergraduates who wish to pursue studies in the fields of Mathematics or Physics.

**Basic Partial Differential Equations**  
By David Bleecker and George Csordas (University of Hawaii at Manoa)

For students with three semesters of calculus, this book is self-contained. In particular, Section 1.1 contains a complete treatment of the relevant types of ordinary differential equations. No previous course in ordinary differential equations or linear algebra is necessary. There are approximately 280 examples worked out in detail, and 600 exercises ranging from routine to challenging. Answers to selected problems appear in the back of the book. Rigorous proofs, of nearly all results used, are given after ample physical motivation.

The book documents extensive applications, including: heat conduction, wave propagation, vibrations of strings, square drums, round drums, spheres and manifolds, traffic flow shocks, evolution of population densities, fluid flow, electrostatics, minimal surfaces, gravitation, and quantum mechanics (including the determination of the bound states of the hydrogen atom). Convenient summaries appear at the end of each section. Theorems and definitions are clearly set off in boxes. The book contains 97 figures, illustrations and tables. (Graphs of mathematical functions of one or several variables were computer generated.)

Softcover. 280 pages.  
Release date: 2004  
List price: $65.00.

Hardcover. 395 pages.  
Release date: January 2006  
List price: $65.00.

By Iris Anshel and Dorian Goldfeld (Columbia University, New York)

The advent of highly accessible computer algebra systems and very sophisticated calculators has led educators to reevaluate how calculus should be taught. Uniquely designed for use with computer algebra systems and sophisticated calculators, this course also works well with a computer laboratory. The students are encouraged to use technology for manual computation while they rapidly progress through the concepts of differential and integral calculus, mathematical modeling and optimization, ordinary differential equations, differential calculus for vector valued and multi-variable functions. The students will progress to vector geometry and coordinate systems, two and three dimensional graphical display, multiple integration, vector fields and line integrals, and on to Fourier series and the Fourier expansion theorem.

Softcover. 642 pages.  
ISBN: 978-1-57146-222-0  
Release date: February 2012  
List price: $40.00.
Curvature Problems
By Claus Gerhardt (Ruprecht-Karls-Universitet)

Applying analytic methods to geometric problems has proved to be extremely fruitful in the last decades. Among the new techniques, with the help of which many problems have been solved, curvature flows and a priori estimates for fully non-linear elliptic partial differential equations are especially important.

In this book, the author considers curvature problems in Riemannian and Lorentzian geometry which have in common either that the extrinsic curvature of closed hypersurfaces is prescribed or that curvature flows driven by the extrinsic curvature are studied and used to obtain some insight in the nature of possible singularities.

Curvature Problems will serve as an advanced textbook for graduate students and for researchers interested in geometry and general relativity.

Hardcover. 323 pages.
Release date: December 2006
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The table below lists all International Press books available for purchase. For more information about new books, see pages 2 through 5. For more information about book series, see pages 6 through 22. For textbooks, see pages 24 and 25.

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Cambridge Journal of Mathematics

ISSN: 2168-0930 (print), 2168-0949 (online)
Issues: 2/year
2014 Rates: $199 (US), $230 (International) for individuals (print-only subscription)
$499 (US), $530 (International) for institutions (print plus online access)
$350 for institutions (online access only)

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Harvard University
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Massachusetts Institute of Technology
Wilfried Schmid, editor-in-chief
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Harvard University

Publisher’s Representative
Shing-Tung Yau
Harvard University

Aims and Scope: (See page 37.) The new Cambridge Journal of Mathematics (CJM) selects and publishes papers of the highest quality which span the range of mathematics, with an emphasis on pure mathematics. Its editors give high priority to an efficient refereeing process with minimal backlog—and aim to make CJM one of the leading journals of mathematics.

Introduction: The flagship issue of CJM (Vol. 1, No. 1) was published in March 2013. Its content is freely accessible online.

On the crystalline period map
Alexander Beilinson (University of Chicago)

Construction of automorphic Galois representations, II
Gaëtan Chenevier (École Polytechnique) and Michael Harris (Institut de Mathématiques de Jussieu)

Classification of the radial solutions of the focusing, energy-critical wave equation
Thomas Duyckaerts (Université Paris 13), Carlos Kenig (University of Chicago), and Frank Merle (Université de Cergy-Pontoise)

Submissions: Manuscripts for consideration may be submitted to any editor. Authors are encouraged to use the LaTeX authoring package designed for CJM, available at http://e-publications.org/intlpress/support.
**Geometry, Imaging and Computing**

**ISSN:** 2328-8876 (print), 2328-8884 (online)  
**Issues:** 4/year  
**2014 Rates:** $138 (US), $168 (International) for individuals  
(print-only subscription)  
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*University of California at Irvine*

**Aims and Scope:** (See page 38.) International Press of Boston is pleased to announce our new journal *Geometry, Imaging and Computing* (GIC), which covers topics in applied geometry and imaging sciences, as well as their computational aspects. The journal’s main theme is differential geometry-based modeling/computation in 3D and higher dimensions, with applications to imaging, computer visions, and graphics. The journal publishes high-quality papers over a broad range of topics, including computational differential geometry, geometry processing, shape analysis, shape registration, image processing, image analysis, image understanding, computer graphics, visions, and visualizations; with applications to science, medicine, engineering, and other fields.

**Introduction:** GIC’s first issue will be dedicated to Prof. David Mumford of Brown University, in honor of his 75th birthday, and in recognition of his tremendous contributions in applying geometry to imaging and computer visions.

**Submissions:** We now invite submissions of papers addressing the relationship between geometry and imaging, and their numerical/computational aspects. All submitted papers will be peer-reviewed. To submit a paper, or for further information, please e-mail gic@intlpress.com.
NEW 2014 JOURNAL

Notices of the International Congress of Chinese Mathematicians

ISSN: 2326-4810 (print), 2326-4845 (online)
Issues: 2/year

Editors-in-Chief
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Horng-Tzer Yau - Harvard University
Jing Yu - National Taiwan University
Hongkai Zhao - University of California at Irvine
Fangyang Zheng - The Ohio State University
Xiping Zhu - Sun Yat-Sen University

Aims and Scope: (See page 41.) The all-new Notices of the International Congress of Chinese Mathematicians (ICCM Notices) is the official periodical of the International Congress of Chinese Mathematicians (ICCM). Published semi-annually, ICCM Notices brings news, research, and presentation of various perspectives, relevant to Chinese mathematics development and education. ICCM Notices will be of interest to all people—whether of Chinese background or not—who are interested in following Chinese mathematics.

Submissions: Please send inquiries to any member of the editorial board (above).

Rates:
- 2014 Subscriptions: $125 (US), $150 (International) for individuals (print-only subscription) and for institutions (print subscription plus online access for ICCM Notices 2013 and 2014).

Individual Purchase:
Volume 1, No. 1
Published: July 2013
List Price: $50.00
ISBN: 978-1-57146-281-7

Volume 1, No. 2
Published: December 2013
List Price: $50.00
Aims and Scope: Mathematics, Science, History, and Culture is a science and math magazine with an international vision. We invite first-class scientists to share their stories and successes. Leading mathematicians introduce the field’s latest exciting developments in a conversational tone and style accessible to a general audience. Also explored are the textured histories of various branches of mathematics, as well as the applications of mathematics in modern science and technology. The magazine is of interest to teachers, students, and researchers—geared primarily towards college and high school students—but holds broader appeal to an educated readership.

Introduction: The contents for the flagship issue of Mathematics, Science, History, and Culture are below.

Interview with academician Chang-Shou Lin
Ping-Zen Ong and Su Yuan Feng
成為數學界的銘理和—林長壽院士訪談 (翁秉仁，馮愫煇)

Interview with Yitang Zhang
Lizhen Ji and Ping-Zen Ong
溫眼看世 劍起驚天—張益唐訪談 (季理真，翁秉仁)

Mathematics in the twentieth century
Michael Atiyah
二十世紀的數學 (阿提雅)

The bigger, the lonelier: the distribution of prime numbers
Jiayu Liu
質數愈大愈孤獨—質數分布 (劉建亞)

Prime numbers are not alone: the twin prime conjecture
Yuan Wang
質數並不孤獨—質數猜想 (王元)

Three mathematicians who won the Nobel Prize
Shanping Wang
三位諾貝爾數學家 (王善平)
Asian Journal of Mathematics

Editors-in-Chief: Raymond Chan (The Chinese University of Hong Kong) and Shing-Tung Yau (Harvard University)

ISSN (print): 1093-6106
ISSN (online): 1945-0036
Issues: 4/year

Aims and Scope: The field of mathematics has grown tremendously in and around Asia in recent years. The *Asian Journal of Mathematics* is a new journal that aims to unite and stimulate mathematical research in the Asian region. It publishes original research papers and survey articles on all areas of pure mathematics and theoretical applied mathematics.

Advances in Theoretical and Mathematical Physics

Editors: Abhay V. Ashtekar (Pennsylvania State University), Elliot Lieb (Princeton University), Shing-Tung Yau (Harvard University), and Barton Zwiebach (Massachusetts Institute of Technology)

ISSN (print): 1095-0761 (print)
ISSN (online): 1095-0753 (online)
Issues: 6/year

Aims and Scope: *Advances in Theoretical and Mathematical Physics* publishes papers on all areas in which theoretical physics and mathematics interact with each other.

Communications in Analysis and Geometry

Editor-in-Chief: Kefeng Liu (University of California at Los Angeles)

ISSN (print): 1019-8385
ISSN (online): 1944-9992
Issues: 5/year

Aims and Scope: *Communications in Analysis and Geometry* publishes high quality papers on subjects related to classical analysis, partial differential equations, algebraic geometry, differential geometry, and topology.
Communications in Information and Systems

Editors-in-Chief: Wing-Shing Wong (The Chinese University of Hong Kong) and Stephen S-T. Yau (University of Illinois at Chicago)

ISSN (print): 1526-7555
ISSN (online): 2163-4548
Issues: 4/year

Aims and Scope: Communications in Information and Systems (CIS) is a journal sponsored by The Institute of Mathematical Sciences, The Chinese University of Hong Kong (IMS, CUHK), and Department of Mathematical Sciences, Tsinghua University.

CIS is dedicated to rapid publication of the highest quality short papers, regular papers, and expository papers in areas including: information and coding theory, cryptology, decision and estimation, control theory, mathematical system theory, signal and image processing, bioinformatics, communication theory, image database, data mining, probabilistic reasoning, learning theory, speech recognition, computer vision, and discrete event systems.

Cambridge Journal of Mathematics

Editors:
David Jerison (Massachusetts Institute of Technology)
Mark Kisin (Harvard University)
William Minicozzi (Massachusetts Institute of Technology)
Wilfried Schmid (Harvard University) (Editor-in-Chief)
Horng-Tzer Yau (Harvard University)

ISSN (print): 2168-0930
ISSN (online): 2168-0949
Issues: 4/year

Aims and Scope: (See page 26.) The editors and International Press are pleased to introduce the Cambridge Journal of Mathematics in 2014. CJM publishes papers of the highest quality, in competition with the top journals in mathematics, aiming for an efficient refereeing process and a minimal backlog. International Press has committed itself to keep the per-page subscription prices comparable to prices charged by non-commercial publishers of mathematics journals.

Communications in Mathematical Sciences

Editor-in-Chief: Shi Jin (University of Wisconsin, Madison)

ISSN (print): 1539-6746
ISSN (online): 1945-0796
Issues: 8/year

Aims and Scope: A leading applied mathematics journal, Communications in Mathematical Sciences features high-quality, original research articles, review and expository papers. This journal covers modern applied mathematics in modeling, applied and stochastic analyses, and numerical computations on problems that arise in physical, biological, engineering, and financial applications.
Communications in Number Theory and Physics

Editors-in-Chief: Robert H. Dijkgraaf (University of Amsterdam; IAS, Princeton), David Kazhdan (Hebrew University), Maxim Kontsevich (Institut des Hautes Etudes Scientifiques), and Shing-Tung Yau (Harvard University)

ISSN (print): 1931-4523
ISSN (online): 1931-4531
Issues: 4/year

Aims and Scope: Communications in Number Theory and Physics is an international journal focused on applications of number theory in the broadest sense to theoretical physics. The journal offers a forum for communication among researchers by publishing primarily research, review, and expository articles regarding the relationship and dynamics between the two fields.

Current Developments in Mathematics

Series Editors: David Jerison (Massachusetts Institute of Technology), Mark Kisin (Harvard University), Tomasz Mrowka (Massachusetts Institute of Technology), Richard Stanley (Massachusetts Institute of Technology), Horng-Tzer Yau (Harvard University), and Shing-Tung Yau (Harvard University)

ISSN (print): 1089-6384
ISSN (online): 2164-4629

Aims and Scope: The Current Developments in Mathematics (CDM) conference is an annual seminar, jointly hosted by Harvard University and the Massachusetts Institute of Technology, devoted to surveying the most recent developments in all areas of mathematics. The CDM selection committee consists of three professors from each institution; each committee member is prominent and working in the forefront of mathematics. In choosing lecturers for each conference, the committee members take a broad look at the various areas of mathematics, and select lecturers who, within their fields, are not only leading specialists in their fields, but transcend classical perceptions. International Press is pleased to bring you selected lectures from each CDM conference in our Current Developments in Mathematics book series.

Geometry, Imaging and Computing

Editors-in-Chief: Xianfeng Gu (State University of New York, Stony Brook), Stanley Osher (University of California at Los Angeles), Chi-Wang Shu (Brown University), Stephen Wong (Methodist Hospital Research Institute, Houston, Texas), and Shing-Tung Yau (Harvard University)

ISSN (print): 2328-8876
ISSN (online): 2328-8884
Issues: 4/year

Aim and Scope: (See page 27.) International Press of Boston is pleased to announce our new journal Geometry, Imaging and Computing (GIC), which covers topics in applied geometry, imaging sciences, and their computational aspects. The journal’s main theme is differential geometry-based modeling/computation in 3D and higher dimensions, with applications to imaging, computer visions, and graphics. The journal publishes high-quality papers over a broad range of topics with applications to science, medicine, engineering, and other fields.
Dynamics of Partial Differential Equations

Editors-in-Chief: Charles Li (University of Missouri - Columbia) and Shing-Tung Yau (Harvard University)

ISSN (print): 1548-159X
ISSN (online): 2163-7873
Issues: 4/year

Aims and Scope: Dynamics of Partial Differential Equations publishes novel results in the areas of partial differential equations and dynamical systems in general, giving priority to dynamical system theory or dynamical aspects of partial differential equations. Both original and expository articles are included.

Homology, Homotopy and Applications

Chief Editor: Gunnar Carlsson (Stanford University)

ISSN (print): 1532-0073
ISSN (online): 1532-0081
Issues: 2/year

Aims and Scope: Homology, Homotopy and Applications is a refereed journal publishing high-quality papers in the general area of homotopy theory and algebraic topology, as well as applications of the ideas and results in this area. Applications are welcome in the broadest sense: to other parts of mathematics such as number theory and algebraic geometry, as well as to other fields such as computer science, physics, and statistics. Homotopy theory is also intended to be interpreted broadly, including algebraic K-theory, model categories, homotopy theory of varieties, etc. We particularly encourage innovative papers which point the way toward new applications of the subject.

Journal of Differential Geometry

Editor-in-Chief: Shing-Tung Yau (Harvard University)
Managing Editor: Huai-Dong Cao (Lehigh University)

ISSN (print): 0022-040X
ISSN (online): 1945-743X
Issues: 9/year

Aim and Scope: The Journal of Differential Geometry publishes research papers in differential geometry and related subjects such as differential equations, mathematical physics, algebraic geometry, and geometric topology.

Journal of Combinatorics

Editors-in-Chief: Fan Chung (University of California at San Diego) and Ronald Graham (University of California at San Diego)

ISSN (print): 2156-3527
ISSN (online): 2150-959X
Issues: 4/year

Aims and Scope: The Journal of Combinatorics publishes high-quality research papers in all branches of combinatorics and related areas, dealing with the structural, as well as algorithmic, aspects of these subjects. (Prior to 2010, International Press published the print version of the “Electronic Journal of Combinatorics”.)
**Methods and Applications of Analysis**

**Editors-in-Chief:** Chi-Wang Shu (Brown University), Xu-Jia Wang (The Australian National University), Zhouping Xin (The Chinese University of Hong Kong), and Shing-Tung Yau (Harvard University; The Chinese University of Hong Kong)

**ISSN (print):** 1073-2772  
**ISSN (online):** 1945-0001  
**Issues:** 4/year

**Aims and Scope:** *Methods and Applications of Analysis* publishes high quality papers in the broad area of pure and applied analysis, ranging from applications to different branches of natural sciences and engineering. Topics include: mathematical physics, mathematical theory of continuum mechanics, differential and integral equations, dynamical systems, stochastic analysis, numerical analysis, asymptotic analysis, special functions, and algebraic analysis of differential or integral equations. Papers with an innovative approach to analysis are especially welcome.

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**Mathematical Research Letters**

**Editor-in-Chief:** Duong H. Phong (Columbia University)

**ISSN:** 1073-2780  
**Issues:** 6/year

**Aims and Scope:** *Mathematical Research Letters* is dedicated to rapid publication of original research in all areas of mathematics. Longer papers, expository papers, or research announcements of exceptional interest are also occasionally published.

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**Journal of Symplectic Geometry**

**Editors:** Denis Auroux (University of California at Berkeley), Simon K. Donaldson (Imperial College London), Victor Guillemin (Massachusetts Institute of Technology), Tomasz Mrowka (Massachusetts Institute of Technology), and Gang Tian (Princeton University)

**ISSN:** 1527-5256  
**Issues:** 4/year

**Aims and Scope:** *The Journal of Symplectic Geometry* publishes papers on all aspects of symplectic geometry, with its deep roots in mathematics, going back to Huygens’ study of optics and to the Hamilton Jacobi formulation of mechanics. The field has grown to touch virtually all branches of mathematics, including many parts of dynamical systems, representation theory, combinatorics, packing problems, algebraic geometry, and differential topology.
Aims and Scope: Pure and Applied Mathematics Quarterly publishes high-quality, original papers in all fields of mathematics. In order to facilitate fruitful interchanges between mathematicians from different regions and specialties, and to effectively disseminate new breakthroughs in mathematics, the journal also welcomes submissions of well-written survey articles in significant areas of research.

Statistics and Its Interface (SCI-ex Indexed)

Editor-in-Chief: Heping Zhang (Yale University)

ISSN (print): 1938-7989
ISSN (online): 1938-7997
Issues: 4/year

Aim and Scope: Statistics and Its Interface explores the interface between statistics and other disciplines including, but not limited to, biomedical sciences, geosciences, computer sciences, engineering, and social and behavioral sciences. The international journal publishes high-quality articles in broad areas of statistical science, emphasizing substantive problems, sound statistical models and methods, clear and efficient computational algorithms, and insightful discussions of the motivating problems.

Surveys in Differential Geometry

Series Editor: Shing-Tung Yau (Harvard University)

ISSN (print): 1052-9233
ISSN (online): 2164-4713

Aims and Scope: Each year, the editors of the Journal of Differential Geometry (p. 39) present a new volume of Surveys in Differential Geometry, a collection of original contributions upon a specially chosen topic in differential geometry and related areas. The series presents an overview of recent trends, while making predictions and suggestions for future research. Each invited contributor is a prominent specialist in their field. The contributors to Surveys tend to transcend classical frameworks within their areas, creating a beneficial collection for experts and non-experts alike, and, in particular, for those independent of the mainstream of activity in the field of geometry.
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