

**Series in Pure Mathematics – Volume 20**

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**ALMOST COMPLEX  
AND  
COMPLEX STRUCTURES**

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# Almost Complex And Complex Structures

**Игорь Ростиславович Шафаревич**



## **Almost Complex And Complex Structures:**

**Almost Complex And Complex Structures** Chuan-chih Hsiung, 1995-08-31 This book gives a self contained fundamental study of the subject Besides the following special features it contains the author's detailed solution to the long standing unsolved problem in the theory of complex manifolds Does there exist a complex structure on the six sphere The special features of the book are a classification of almost complex and similarly almost Hermitian structures together with inclusion relations discussions about various known almost Hermitian structures a necessary and sufficient condition for a general almost Hermitian manifold to have constant holomorphic sectional or bisectional curvature and similar conditions for various special almost Hermitian manifolds some complex Laplacians together with some of their relationships with the real Laplacian the spectral geometry of Riemannian manifolds and some general almost Hermitian manifolds including Kählerian manifolds as a special case conditions for an almost complex structure to be a complex structure some vanishing theorems for Riemannian and almost Hermitian manifolds [Almost Complex Structures - Proceedings Of The International Workshop](#)

Kouei Sekigawa, Stancho Dimiev, 1994-12-16 The geometry of almost complex structures is fundamentally concerned with complex analysis and also mathematical physics In view of the increasing interest in almost complex structures this volume will be useful in future studies of geometry and complex analysis and related fields *Complex and Almost-complex Structures on Six Dimensional Manifolds*

James Ryan Brown, 2006 We investigate the properties of hypothetical exotic complex structures on three dimensional complex projective space  $CP^3$  This is motivated by the long standing question in differential geometry of whether or not the six sphere  $S^6$  admits an integrable almost complex structure An affirmative answer to this question would imply the existence of many exotic complex structures on  $CP^3$  It is known that  $CP^3$  admits many topologically different almost complex structures but it is unknown whether or not  $CP^3$  admits an integrable almost complex structure other than the standard Kähler structure In this manuscript we give lower bounds on the Hodge numbers of hypothetical exotic structures on  $CP^3$  and a necessary condition for the Frölicher spectral sequence to degenerate at the second level We also give topological constraints on the classes of hypothetical exotic complex structures which are  $C$  symmetric We give restrictions on the fixed point sets of such  $C$  actions *Differential Geometry and Related Topics*

Chaohao Gu, Hesheng Hu, 2002 The International Conference on Modern Mathematics and the International Symposium on Differential Geometry in honor of Professor Su Buchin on the centenary of his birth were held in September 2001 at Fudan University Shanghai China Around 100 mathematicians from China France Japan Singapore and the United States participated The proceedings cover a broad spectrum of advanced topics in mathematics especially in differential geometry such as some problems of common interest in harmonic maps submanifolds the Yang Mills field and the geometric theory of solitons *Real Algebraic Geometry and Ordered Structures*

Charles N. Delzell, James J. Madden, 2000 This volume contains 16 carefully refereed articles by participants in the Special Semester and the AMS Special Session on Real Algebraic

Geometry and Ordered Structures held at Louisiana State University and Southern University Baton Rouge The 23 contributors to this volume were among the 75 mathematicians from 15 countries who participated in the special semester Topics include the topology of real algebraic curves Hilbert's 16th problem moduli of real algebraic curves effective sums of squares of real forms Hilbert's 17th problem efficient real quantifier elimination subanalytic sets and stratifications semialgebraic singularity theory radial vector fields exponential functions and valuations on nonarchimedean ordered fields valued field extensions partially ordered and lattice ordered rings rings of continuous functions spectra of rings and abstract spaces of higher level orderings and real places This volume provides a good overview of the state of the art in this area in the 1990s It includes both expository and original research papers by top workers in this thriving field The authors and editors strived to make the volume useful to a wide audience including students and researchers interested in real algebraic geometry and ordered structures two subjects that are obviously related but seldom brought together

**Holomorphic Dynamics and Renormalization** Mikhail Lyubich, Michael Yampolsky, Schwarzian derivatives and cylinder maps by A Bonifant and J Milnor Holomorphic dynamics Symbolic dynamics and self similar groups by V Nekrashevych Are there critical points on the boundaries of mother hedgehogs by D K Childers Finiteness for degenerate polynomials by L DeMarco Cantor webs in the parameter and dynamical planes of rational maps by R L Devaney Simple proofs of uniformization theorems by A A Glutsyuk The Yoccoz combinatorial analytic invariant by C L Petersen and P Roesch Bifurcation loci of exponential maps and quadratic polynomials Local connectivity triviality of fibers and density of hyperbolicity by L Rempe and D Schleicher Rational and transcendental Newton maps by J Ruckert Newton's method as a dynamical system Efficient root finding of polynomials and the Riemann zeta function by D Schleicher The external boundary of  $M_2$  by V Timorin Renormalization Renormalization of vector fields by H Koch Renormalization of arbitrary weak noises for one dimensional critical dynamical systems Summary of results and numerical explorations by O Diaz Espinosa and R de la Llave KAM for the nonlinear Schrodinger equation A short presentation by H L Eliasson and S B Kuksin Siegel disks and renormalization fixed points by M Yampolsky

**Handbook of Differential Geometry** Franki J.E. Dillen, Leopold C.A. Verstraelen, 2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics

**Encyclopaedia of Mathematics (set)** Michiel

Hazewinkel,1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Encyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly recommended for use in libraries of universities research institutes colleges and even schools

**Encyclopaedia of Mathematics** M. Hazewinkel,2013-12-01  
**Infinite Dimensional Analysis, Quantum Probability And Related Topics, Qp38 - Proceedings Of The International Conference** Noboru Watanabe,Luigi Accardi,Si Si,2023-10-25 This volume aims to return to the starting point of the fields of infinite dimensional analysis and quantum probability fields that are growing rapidly at present and to seriously attempt mutual interaction between the two with a view to enumerating and solving the many fundamental problems they entail For such a purpose we look for interdisciplinary bridges in mathematics including classical probability and to different branches of physics in particular research for new paradigms for information science on the basis of quantum theory

*Encyclopaedia of Mathematics* Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclo paedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reason ably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of pre cise theorems with detailed definitions and technical details on how to carry out proofs and con structions

**Analysis, Manifolds and Physics Revised Edition** Yvonne Choquet-Bruhat,Cécile DeWitt-Morette,Margaret Dillard-Bleick,1982 This reference book which has found wide use as a text

provides an answer to the needs of graduate physical mathematics students and their teachers The present edition is a thorough revision of the first including a new chapter entitled Connections on Principle Fibre Bundles which includes sections on holonomy characteristic classes invariant curvature integrals and problems on the geometry of gauge fields monopoles instantons spin structure and spin connections Many paragraphs have been rewritten and examples and exercises added to ease the study of several chapters The index includes over 130 entries

**The Newlander-Nirenberg Theorem**  
 Richard Otto Bulena,1990 *Transactions of the American Mathematical Society* American Mathematical Society,1994  
Body and Mind William McDougall,1918 Body and Mind Walter Byron McDougall,1911 *Structures in a*  
*Differentiable Manifold* Ratan Shanker Mishra,1978 **Algebraic Surfaces** Игорь Ростиславович Шафаревич,1967  
 Revised reports based on the seminars on the theory of algebraic surfaces held in 1961 1963 Foundations of Differential  
Geometry Shōshichi Kobayashi,Katsumi Nomizu,1969 Tensor ,1985

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