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The Algebraic
Characterization of Geometric
4-Manifolds

J. A. Hillman

CAMBRIDGE UNIVERSITY PRESS

Algebraic Characterization Of Geometric Four Manifolds

Wenbin Ji



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The Algebraic Characterization of Geometric 4-Manifolds J. A. Hillman, 1994-02-03 This book describes work on the characterization of closed 4 manifolds in terms of familiar invariants such as Euler characteristic fundamental group and Stiefel Whitney classes Using techniques from homological group theory the theory of 3 manifolds and topological surgery infrasolvmanifolds are characterized up to homeomorphism and surface bundles are characterized up to simple homotopy equivalence Non orientable cases are also considered wherever possible and in the final chapter the results obtained earlier are applied to 2 knots and complex analytic surfaces

The Algebraic Characterization of Geometric 4-manifolds Jonathan Arthur Hillman, 1993

Advances in Elliptic Curve Cryptography Ian F. Blake, Gadiel Seroussi, Nigel P. Smart, 2005-04-25 Since the appearance of the authors first volume on elliptic curve cryptography in 1999 there has been tremendous progress in the field In some topics particularly point counting the progress has been spectacular Other topics such as the Weil and Tate pairings have been applied in new and important ways to cryptographic protocols that hold great promise Notions such as provable security side channel analysis and the Weil descent technique have also grown in importance This second volume addresses these advances and brings the reader up to date Prominent contributors to the research literature in these areas have provided articles that reflect the current state of these important topics They are divided into the areas of protocols implementation techniques mathematical foundations and pairing based cryptography Each of the topics is presented in an accessible coherent and consistent manner for a wide audience that will include mathematicians computer scientists and engineers

Double Affine Hecke Algebras Ivan Cherednik, 2005-03-21 This is an essentially self contained monograph centered on the new double Hecke algebra technique

Generalised Euler-Jacobi Inversion Formula and Asymptotics Beyond All Orders Vic Kowalenko, N. E. Frankel, L. Glasser, T. Taucher, 1995-09-14 This work presents exciting new developments in understanding the subdominant exponential terms of asymptotic expansions which have previously been neglected

Analytic Number Theory Yoichi Motohashi, 1997-10-16 Authoritative up to date review of analytic number theory containing outstanding contributions from leading international figures

P-Automorphisms of Finite P-Groups Evgenii I. Khukhro, 1998-02-13 Ideal for graduate students and researchers working in group theory and Lie rings

A Mathematical Introduction to String Theory Sergio Albeverio, 1997-07-17 This book deals with the mathematical aspects of string theory

Lectures on the Ricci Flow Peter Topping, 2006-10-12 An introduction to Ricci flow suitable for graduate students and research mathematicians

Integral Closure of Ideals, Rings, and Modules Craig Huneke, Irena Swanson, 2006-10-12 Ideal for graduate students and researchers this book presents a unified treatment of the central notions of integral closure

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