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THE MATHEMATICS OF SURFACES

Edited by J.A. GREGORY



Mathematics Of Surfaces

**Ralph Martin, Malcolm Sabin, Joab
Winkler**



Mathematics Of Surfaces:

The Mathematics of Surfaces R. R. Martin, 1987 **Computer-aided Surface Geometry and Design** Adrian Bowyer, 1994 Describing the shapes of real objects for the purposes of engineering architecture medicine and a host of other disciplines often requires complicated mathematics and subtle computer techniques With contributions from eminent authorities in the field this wide ranging volume describes the latest research in computer aided surface geometry and design techniques currently being used and developed Topics include The geometry of helical canal surface optimized triangulation of parametric surfaces simple singularities in surface surface intersections and the volume function among others With its technical richness and comprehensive treatment of the subject the book will appeal to students and researchers working in CAD CAM architecture medical modeling molecular modeling geography cartography and landscape design **Mathematics of Surfaces**, 1986 **The Mathematics of Surfaces IX** Roberto Cipolla, Ralph Martin, 2012-12-06 These proceedings collect the papers accepted for presentation at the bien nial IMA Conference on the Mathematics of Surfaces held in the University of Cambridge 4 7 September 2000 While there are many international conferences in this fruitful borderland of mathematics computer graphics and engineering this is the oldest the most frequent and the only one to concentrate on surfaces Contributors to this volume come from twelve different countries in Europe North America and Asia Their contributions reflect the wide diversity of present day applications which include modelling parts of the human body for medical purposes as well as the production of cars aircraft and engineering components Some applications involve design or construction of surfaces by interpolating or approximating data given at points or on curves Others consider the problem of reverse engineering giving a mathematical description of an already constructed object We are particularly grateful to Pamela Bye at the Institut de Mathématiques and its Applications for help in making arrangements Stephanie Harding and Karen Barker at Springer Verlag London for publishing this volume and to Kwan Yee Kenneth Wong Cambridge for his heroic help with compiling the proceedings and for dealing with numerous technicalities arising from large and numerous computer files Following this Preface is a listing of the programme committee who with the help of their colleagues did much work in refereeing the papers for these proceedings **Surfaces** H. B. Griffiths, 1981-04-30 This well illustrated book develops a language close to that of ordinary discourse with which to discuss ideas about shapes making it accessible to those who have not mastered the initial ideas of analysis and general topology Ideal for students with its abundant exercises the book is an example of the emerging discipline of mathematics education as well as being about surfaces **Moduli Spaces of Riemann Surfaces** Benson Farb, Richard Hain, Eduard Looijenga, 2013-08-16 Mapping class groups and moduli spaces of Riemann surfaces were the topics of the Graduate Summer School at the 2011 IAS Park City Mathematics Institute This book presents the nine different lecture series comprising the summer school covering a selection of topics of current interest The introductory courses treat mapping class groups and Teichmüller theory The more advanced

courses cover intersection theory on moduli spaces the dynamics of polygonal billiards and moduli spaces the stable cohomology of mapping class groups the structure of Torelli groups and arithmetic mapping class groups The courses consist of a set of intensive short lectures offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The book should be a valuable resource for graduate students and researchers interested in the topology geometry and dynamics of moduli spaces of Riemann surfaces and related topics Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price

Differential Geometry of Curves and Surfaces Victor Andreievich Toponogov, 2006-09-10 This concise guide to the differential geometry of curves and surfaces can be recommended to rst year graduate students strong senior students and students specializing in geometry The material is given in two parallel streams The rst stream contains the standard theoretical material on differential geometry of curves and surfaces It contains a small number of exercises and simple problems of a local nature It includes the whole of Chapter 1 except for the problems Sections 1.5 1.7 1.10 and Section 1.11 about the phase length of a curve and the whole of Chapter 2 except for Section 2.6 about classes of surfaces T orem's 2.8 1.2 8.4 the problems Sections 2.7 4.2 8.3 and the appendix Section 2.9 The second stream contains more difficult and additional material and for lations of some complicated but important theorems for example a proof of A D Aleksandrov's comparison theorem about the angles of a triangle on a convex 1 surface formulations of A V Pogorelov's theorem about rigidity of convex surfaces and S N Bernstein's theorem about saddle surfaces In the last case the formulations are discussed in detail A distinctive feature of the book is a large collection 80 to 90 of nonstandard and original problems that introduce the student into the real world of geometry

Mathematics of Surfaces Michael J. Wilson, 2003-09-09 This book constitutes the refereed proceedings of the 10th IMA International Conference on the Mathematics of Surfaces held in Leeds UK in September 2003 The 25 revised full papers presented were carefully reviewed and selected from numerous submissions Among the topics addressed are triangulated surface parameterization bifurcation structures control vertex computation polyhedral surfaces watermarking 3D polygonal meshed subdivision surfaces surface reconstruction vector transport shape from shading surface height recovery algebraic surfaces box splines the Plateau Bezier problem spline geometry generative geometry manifold representation affine arithmetic and PDE surfaces

Constant Mean Curvature Surfaces with Boundary Rafael López, 2013-08-31 The study of surfaces with constant mean curvature CMC is one of the main topics in classical differential geometry Moreover CMC surfaces are important mathematical models for the physics of interfaces in the absence of gravity where they separate two different media or for capillary phenomena Further as most techniques used in the theory of CMC surfaces not only involve geometric methods but also PDE and complex analysis the theory is also of great interest for many other mathematical fields While minimal surfaces and CMC

surfaces in general have already been treated in the literature the present work is the first to present a comprehensive study of compact surfaces with boundaries narrowing its focus to a geometric view Basic issues include the discussion whether the symmetries of the curve inherit to the surface the possible values of the mean curvature area and volume stability the circular boundary case and the existence of the Plateau problem in the non parametric case The exposition provides an outlook on recent research but also a set of techniques that allows the results to be expanded to other ambient spaces Throughout the text numerous illustrations clarify the results and their proofs The book is intended for graduate students and researchers in the field of differential geometry and especially theory of surfaces including geometric analysis and geometric PDEs It guides readers up to the state of the art of the theory and introduces them to interesting open problems

Mathematics of Surfaces XII Ralph Martin, Malcolm Sabin, Joab Winkler, 2007-08-28 This book constitutes the refereed proceedings of the 12th IMA International Conference on the Mathematics of Surfaces held in Sheffield UK in September 2007 The papers cover a range of ideas from underlying theoretical tools to industrial uses of surfaces Research is reported on theoretical aspects of surfaces as well as more practical topics

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