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THE MATHEMATICS OF SURFACES

Edited by J.A. GREGORY



Mathematics Of Surfaces

Manfredo Perdigão do Carmo



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

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 Institute of Mathematics 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

Mathematics of Surfaces, 1986 Modern Differential Geometry of Curves and Surfaces with Mathematica, Second Edition Mary Gray, 1997-12-29 The Second Edition combines a traditional approach with the symbolic manipulation abilities of Mathematica to explain and develop the classical theory of curves and surfaces You will learn to reproduce and study interesting curves and surfaces many more than are included in typical texts using computer methods By plotting geometric objects and studying the printed result teachers and students can understand concepts geometrically and see the effect of changes in parameters Modern Differential Geometry of Curves and Surfaces with Mathematica explains how to define and compute standard geometric functions for example the curvature of curves and presents a dialect of Mathematica for constructing new curves and surfaces from old The book also explores how to apply

techniques from analysis Although the book makes extensive use of Mathematica readers without access to that program can perform the calculations in the text by hand While single and multi variable calculus some linear algebra and a few concepts of point set topology are needed to understand the theory no computer or Mathematica skills are required to understand the concepts presented in the text In fact it serves as an excellent introduction to Mathematica and includes fully documented programs written for use with Mathematica Ideal for both classroom use and self study Modern Differential Geometry of Curves and Surfaces with Mathematica has been tested extensively in the classroom and used in professional short courses throughout the world

Differential Geometry of Curves and Surfaces Victor Andreievich Toponogov, 2005-12-05 Central topics covered include curves surfaces geodesics intrinsic geometry and the Alexandrov global angle comparison theorem Many nontrivial and original problems some with hints and solutions Standard theoretical material is combined with more difficult theorems and complex problems while maintaining a clear distinction between the two levels

Knots and Surfaces N. D. Gilbert, Timothy Porter, 1994 This highly readable text details the interaction between the mathematical theory of knots and the theories of surfaces and group presentations It expertly introduces several topics critical to the development of pure mathematics while providing an account of math in action in an unusual context Beginning with a simple diagrammatic approach to the study of knots that reflects the artistic and geometric appeal of interlaced forms Knots and Surfaces takes the reader through recent research advances Topics include topological spaces surfaces the fundamental group graphs free groups and group presentations The authors skillfully combine these topics to form a coherent and highly developed theory to explore and explain the accessible and intuitive problems of knots and surfaces to students and researchers in mathematics

A Survey of Minimal Surfaces Robert Osserman, 1986-01-01 This clear and comprehensive study features 12 sections that discuss parametric and non parametric surfaces surfaces that minimize area isothermal parameters Bernstein's theorem minimal surfaces with boundary and many other topics This revised edition includes material on minimal surfaces in relativity and topology and updated work on Plateau's problem and isoperimetric inequalities 1969 edition

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

Differential Geometry of Curves and Surfaces Manfredo Perdigão do Carmo, 1976 This volume covers local as well as global differential geometry of curves and surfaces

Algebraic Surfaces Oscar Zariski, 1995-02-15 From the reviews The author s book saw its first edition in 1935 Now as before the original text of the book is an excellent source for an interested reader to study the methods of classical algebraic geometry and to find the great old results a timelessly beautiful pearl in the cultural heritage of mathematics as a whole Zentralblatt MATH

Knots and Surfaces David W. Farmer, Theodore B. Stanford, In most mathematics textbooks the most exciting part of mathematics the process of invention and discovery is completely hidden from the student The aim of Knots and Surfaces is to change all that Knots and Surfaces guides the reader through Euler s formula one and two sided surfaces and knot theory using games and examples By means of a series of carefully selected tasks this book leads the reader on to discover some real mathematics There are no formulas to memorize no procedures to follow This book is a guide to the mathematics it starts you in the right direction and brings you back if you stray too far Discovery is left to you This book is aimed at undergraduates and those with little background knowledge of mathematics

Differential Geometry of Curves and Surfaces Kristopher Tapp, 2016-09-30 This is a textbook on differential geometry well suited to a variety of courses on this topic For readers seeking an elementary text the prerequisites are minimal and include plenty of examples and intermediate steps within proofs while providing an invitation to more excursive applications and advanced topics For readers bound for graduate school in math or physics this is a clear concise rigorous development of the topic including the deep global theorems For the benefit of all readers the author

employs various techniques to render the difficult abstract ideas herein more understandable and engaging Over 300 color illustrations bring the mathematics to life instantly clarifying concepts in ways that grayscale could not Green boxed definitions and purple boxed theorems help to visually organize the mathematical content Color is even used within the text to highlight logical relationships Applications abound The study of conformal and equiareal functions is grounded in its application to cartography Evolutes involutes and cycloids are introduced through Christiaan Huygens fascinating story in attempting to solve the famous longitude problem with a mathematically improved pendulum clock he invented mathematics that would later be applied to optics and gears Clairaut's Theorem is presented as a conservation law for angular momentum Green's Theorem makes possible a drafting tool called a planimeter Foucault's Pendulum helps one visualize a parallel vector field along a latitude of the earth Even better a south pointing chariot helps one visualize a parallel vector field along any curve in any surface In truth the most profound application of differential geometry is to modern physics which is beyond the scope of this book The GPS in any car wouldn't work without general relativity formalized through the language of differential geometry Throughout this book applications metaphors and visualizations are tools that motivate and clarify the rigorous mathematical content but never replace it

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

Implicit Curves and Surfaces: Mathematics, Data Structures and Algorithms Abel Gomes, Irina

Voiculescu, Joaquim Jorge, Brian Wyvill, Callum Galbraith, 2009-05-12 Implicit objects have gained increasing importance in geometric modeling visualisation animation and computer graphics because their geometric properties provide a good alternative to traditional parametric objects This book presents the mathematics computational methods and data structures as well as the algorithms needed to render implicit curves and surfaces and shows how implicit objects can easily describe smooth intricate and articulatable shapes and hence why they are being increasingly used in graphical applications Divided

into two parts the first introduces the mathematics of implicit curves and surfaces as well as the data structures suited to store their sampled or discrete approximations and the second deals with different computational methods for sampling implicit curves and surfaces with particular reference to how these are applied to functions in 2D and 3D spaces

Curves and Surfaces Sebastian Montiel, Antonio Ros, 2024-11-18 This introductory textbook puts forth a clear and focused point of view on the differential geometry of curves and surfaces Following the modern point of view on differential geometry the book emphasizes the global aspects of the subject The excellent collection of examples and exercises with hints will help students in learning the material Advanced undergraduates and graduate students will find this a nice entry point to differential geometry In order to study the global properties of curves and surfaces it is necessary to have more sophisticated tools than are usually found in textbooks on the topic In particular students must have a firm grasp on certain topological theories Indeed this monograph treats the Gauss Bonnet theorem and discusses the Euler characteristic The authors also cover Alexandrov's theorem on embedded compact surfaces in \mathbb{R}^3 with constant mean curvature The last chapter addresses the global geometry of curves including periodic space curves and the four vertices theorem for plane curves that are not necessarily convex Besides being an introduction to the lively subject of curves and surfaces this book can also be used as an entry to a wider study of differential geometry It is suitable as the text for a first year graduate course or an advanced undergraduate course

Non-complete Algebraic Surfaces M. Miyanishi, 2006-11-15

Geometry of Surfaces John Stillwell, 1992

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