

Alberto Lastra

# Parametric Geometry of Curves and Surfaces

Architectural Form-Finding

 Birkhäuser

# Curves Surfaces

**Gerald Farin**



## Curves Surfaces:

Differential Geometry Wolfgang Kühnel, 2006 Our first knowledge of differential geometry usually comes from the study of the curves and surfaces in  $\mathbb{R}^3$  that arise in calculus Here we learn about line and surface integrals divergence and curl and the various forms of Stokes Theorem If we are fortunate we may encounter curvature and such things as the Serret Frenet formulas With just the basic tools from multivariable calculus plus a little knowledge of linear algebra it is possible to begin a much richer and rewarding study of differential geometry which is what is presented in this book It starts with an introduction to the classical differential geometry of curves and surfaces in Euclidean space then leads to an introduction to the Riemannian geometry of more general manifolds including a look at Einstein spaces An important bridge from the low dimensional theory to the general case is provided by a chapter on the intrinsic geometry of surfaces The first half of the book covering the geometry of curves and surfaces would be suitable for a one semester undergraduate course The local and global theories of curves and surfaces are presented including detailed discussions of surfaces of rotation ruled surfaces and minimal surfaces The second half of the book which could be used for a more advanced course begins with an introduction to differentiable manifolds Riemannian structures and the curvature tensor Two special topics are treated in detail spaces of constant curvature and Einstein spaces The main goal of the book is to get started in a fairly elementary way then to guide the reader toward more sophisticated concepts and more advanced topics There are many examples and exercises to help along the way Numerous figures help the reader visualize key concepts and examples especially in lower dimensions For the second edition a number of errors were corrected and some text and a number of figures have been added

**Curves and Surfaces** Sebastián Montiel, Antonio Ros, 2009 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

Curves and Surfaces in Geometric Modeling Jean H. Gallier, 2000 Curves and Surfaces in Geometric Modeling Theory and Algorithms offers a theoretically unifying understanding of polynomial curves and surfaces

as well as an effective approach to implementation that you can apply to your own work as a graduate student scientist or practitioner The focus here is on blossoming the process of converting a polynomial to its polar form as a natural purely geometric explanation of the behavior of curves and surfaces This insight is important for more than just its theoretical elegance the author demonstrates the value of blossoming as a practical algorithmic tool for generating and manipulating curves and surfaces that meet many different criteria You ll learn to use this and other related techniques drawn from affine geometry for computing and adjusting control points deriving the continuity conditions for splines creating subdivision surfaces and more It will be an essential acquisition for readers in many different areas including computer graphics and animation robotics virtual reality geometric modeling and design medical imaging computer vision and motion planning

**BOOK JACKET Title Summary** field provided by Blackwell North America Inc All Rights Reserved     **Lectures on Curves, Surfaces and Projective Varieties** Mauro Beltrametti,2009 This book offers a wide ranging introduction to algebraic geometry along classical lines It consists of lectures on topics in classical algebraic geometry including the basic properties of projective algebraic varieties linear systems of hypersurfaces algebraic curves with special emphasis on rational curves linear series on algebraic curves Cremona transformations rational surfaces and notable examples of special varieties like the Segre Grassmann and Veronese varieties An integral part and special feature of the presentation is the inclusion of many exercises not easy to find in the literature and almost all with complete solutions The text is aimed at students in the last two years of an undergraduate program in mathematics It contains some rather advanced topics suitable for specialized courses at the advanced undergraduate or beginning graduate level as well as interesting topics for a senior thesis The prerequisites have been deliberately limited to basic elements of projective geometry and abstract algebra Thus for example some knowledge of the geometry of subspaces and properties of fields is assumed The book will be welcomed by teachers and students of algebraic geometry who are seeking a clear and panoramic path leading from the basic facts about linear subspaces conics and quadrics to a systematic discussion of classical algebraic varieties and the tools needed to study them The text provides a solid foundation for approaching more advanced and abstract literature     **Curves and Surfaces for CAGD** Gerald E. Farin,2002 Preface Chapter 1 P B ezier How a Simple System Was Born Chapter 2 Introductory Material Chapter 3 Linear Interpolation Chapter 4 The de Casteljaou Algorithm Chapter 5 The Bernstein Form of a B ezier Curve Chapter 6 B ezier Curve Topics Chapter 7 Polynomial Curve Constructions Chapter 8 B Spline Curves Chapter 9 Constructing Spline Curves Chapter 10 W Boehm Differential Geometry I Chapter 11 Geometric Continuity Chapter 12 ConicSections Chapter 13 Rational B ezier and B Spline Curves Chapter 14 Tensor Product Patches Chapter 15 Constructing Polynomial Patches Chapter 16 Composite Surfaces Chapter 17 B ezier Triangles Chapter 18 Practical Aspects of B ezier Triangles Chapter 19 W Boehm Differential Geometry II Chapter 20 GeometricContinuityforSurfaces Chapter 21 Surfaces with Arbitrary Topology Chapter 22 Coons Patches Chapter 23 Shape Chapter 24 Evaluation of Some Methods Appendix A Quick

Reference of Curve *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 first year graduate students, strong senior students and students specializing in geometry. The material is given in two parallel streams. The first 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. Theorems 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 formulations 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 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.

Curves and Surfaces M. Abate, F. Tovena, 2012-06-11 The book provides an introduction to Differential Geometry of Curves and Surfaces. The theory of curves starts with a discussion of possible definitions of the concept of curve, proving in particular the classification of 1-dimensional manifolds. We then present the classical local theory of parametrized plane and space curves; curves in  $n$ -dimensional space are discussed in the complementary material: curvature, torsion, Frenet's formulas and the fundamental theorem of the local theory of curves. Then, after a self-contained presentation of degree theory for continuous self-maps of the circumference, we study the global theory of plane curves, introducing winding and rotation numbers and proving the Jordan curve theorem for curves of class  $C^2$  and Hopf's theorem on the rotation number of closed simple curves. The local theory of surfaces begins with a comparison of the concept of parametrized (i.e. immersed) surface with the concept of regular (i.e. embedded) surface. We then develop the basic differential geometry of surfaces in  $\mathbb{R}^3$ : definitions, examples, differentiable maps and functions, tangent vectors (presented both as vectors tangent to curves in the surface and as derivations on germs of differentiable functions), we shall consistently use both approaches in the whole book, and orientation. Next, we study the several notions of curvature on a surface, stressing both the geometrical meaning of the objects introduced and the algebraic-analytical methods needed to study them via the Gauss map, up to the proof of Gauss' Theorema Egregium. Then we introduce vector fields on a surface, flow, first integrals, integral curves and geodesics, definition, basic properties, geodesic curvature, and in the complementary material, a full proof of minimizing properties of geodesics and of the Hopf-Rinow theorem for surfaces. Then we shall present a proof of the celebrated Gauss-Bonnet theorem, both in its local and in its global form, using basic properties fully proved in the complementary material of triangulations of surfaces. As an application, we shall prove the Poincaré-Hopf theorem on zeroes of vector fields. Finally, the last chapter will be devoted to several important results on the global theory of surfaces, like, for instance, the characterization

of surfaces with constant Gaussian curvature and the orientability of compact surfaces in  $\mathbb{R}^3$      Differential Geometry of Curves and Surfaces Thomas F. Banchoff, Stephen T. Lovett, 2010-03-01 Students and professors of an undergraduate course in differential geometry will appreciate the clear exposition and comprehensive exercises in this book that focuses on the geometric properties of curves and surfaces one and two dimensional objects in Euclidean space The problems generally relate to questions of local properties the properties     **Designing Fair Curves and Surfaces** Nickolas S. Sapidis, 1994-01-01 The authors define fairness mathematically demonstrate how newly developed curve and surface schemes guarantee fairness and assist the user in identifying and removing shape aberrations in a surface model without destroying the principal shape characteristics of the model A valuable resource for engineers working in CAD CAM or computer aided engineering     **Lectures on Curves, Surfaces and Projective Varieties** Mauro Beltrametti, Ettore Carletti, Giacomo Monti Bragadin, Dionisio Gallarati, 2009 This book offers a wide ranging introduction to algebraic geometry along classical lines It consists of lectures on topics in classical algebraic geometry including the basic properties of projective algebraic varieties linear systems of hypersurfaces algebraic curves with special emphasis on rational curves linear series on algebraic curves Cremona transformations rational surfaces and notable examples of special varieties like the Segre Grassmann and Veronese varieties An integral part and special feature of the presentation is the inclusion of many exercises not easy to find in the literature and almost all with complete solutions The text is aimed at students in the last two years of an undergraduate program in mathematics It contains some rather advanced topics suitable for specialized courses at the advanced undergraduate or beginning graduate level as well as interesting topics for a senior thesis The prerequisites have been deliberately limited to basic elements of projective geometry and abstract algebra Thus for example some knowledge of the geometry of subspaces and properties of fields is assumed The book will be welcomed by teachers and students of algebraic geometry who are seeking a clear and panoramic path leading from the basic facts about linear subspaces conics and quadrics to a systematic discussion of classical algebraic varieties and the tools needed to study them The text provides a solid foundation for approaching more advanced and abstract literature     Differential Geometry of Curves and Surfaces Manfredo P. do Carmo, 2016-12-14 One of the most widely used texts in its field this volume's clear well written exposition is enhanced by many examples and exercises some with hints and answers 1976 edition     **Lectures on the Differential Geometry of Curves and Surfaces** Andrew Russell Forsyth, 1912     **An Introduction to Computational Geometry for Curves and Surfaces** A. J. Davies, Philip Samuels, 1996     *Differential Geometry of Curves and Surfaces* Masaaki Umehara, Kotaro Yamada, 2017 This engrossing volume on curve and surface theories is the result of many years of experience the authors have had with teaching the most essential aspects of this subject The first half of the text is suitable for a university level course without the need for referencing other texts as it is completely self contained More advanced material in the second half of the book including appendices also serves more experienced students well

Furthermore this text is also suitable for a seminar for graduate students and for self study It is written in a robust style that gives the student the opportunity to continue his study at a higher level beyond what a course would usually offer Further material is included for example closed curves enveloping curves curves of constant width the fundamental theorem of surface theory constant mean curvature surfaces and existence of curvature line coordinates Surface theory from the viewpoint of manifolds theory is explained and encompasses higher level material that is useful for the more advanced student This includes but is not limited to indices of umbilics properties of cycloids existence of conformal coordinates and characterizing conditions for singularities In summary this textbook succeeds in elucidating detailed explanations of fundamental material where the most essential basic notions stand out clearly but does not shy away from the more advanced topics needed for research in this field It provides a large collection of mathematically rich supporting topics Thus it is an ideal first textbook in this field

**Curve and Surface Design** Pierre Jean Laurent,Paul Sablonnière,Larry L. Schumaker,2000 Two new volumes of carefully refereed and edited papers on the most current developments in the theory and applications of curves and surfaces These two volumes contain a selection of papers presented at the Saint Malo Conference on Approximation Theory in July 1999 Each contains several invited survey papers written by experts in the field along with contributed research papers They will be of great interest to mathematicians engineers and computer scientists working in the fields of Approximation Theory Computer Aided Geometric Design CAGD Computer Graphics Numerical Analysis CAD CAM and application areas Curve and Surface Design includes the following topics B bases canal surfaces conics curvature discrete fairing free form surfaces G2 splines highlight lines involute curves multisided patches NURBs and NURPs offsets ray tracing ruled surfaces sculptured surfaces segmentation methods shape preservation texture voronoi diagrams

**Geometry of Curves and Surfaces with MAPLE** Vladimir Rovenski,2013-12-01 This concise text on geometry with computer modeling presents some elementary methods for analytical modeling and visualization of curves and surfaces The author systematically examines such powerful tools as 2 D and 3 D animation of geometric images transformations shadows and colors and then further studies more complex problems in differential geometry Well illustrated with more than 350 figures reproducible using Maple programs in the book the work is devoted to three main areas curves surfaces and polyhedra Pedagogical benefits can be found in the large number of Maple programs some of which are analogous to C programs including those for splines and fractals To avoid tedious typing readers will be able to download many of the programs from the Birkhauser web site Aimed at a broad audience of students instructors of mathematics computer scientists and engineers who have knowledge of analytical geometry i e method of coordinates this text will be an excellent classroom resource or self study reference With over 100 stimulating exercises problems and solutions it Geometry of Curves and Surfaces with Maple will integrate traditional differential and non Euclidean geometries with more current computer algebra systems in a practical and user friendly format

**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 *Topics in Surface Modeling* Hans Hagen,1992-01-01 Contains recent ideas and results in three areas of growing importance in curve and surface design algebraic methods variational surface design and some special applications Leading researchers from throughout the world have contributed their latest work and provided several promising solutions to open issues in surface modeling **Curves and Surfaces for Computer-Aided Geometric Design** Gerald Farin,2014-06-28 A leading expert in CAGD Gerald Farin covers the representation manipulation and evaluation of geometric shapes in this the Third Edition of *Curves and Surfaces for Computer Aided Geometric Design* The book offers an introduction to the field that emphasizes Bernstein Bezier methods and presents subjects in an informal readable style making this an ideal text for an introductory course at the advanced undergraduate or graduate level The Third Edition includes a new chapter on Topology offers new exercises and sections within most chapters combines the material on Geometric Continuity into one chapter and updates existing materials and references Implementation techniques are addressed for practitioners by the inclusion of new C programs for many of the fundamental algorithms The C programs are available on a disk included with the text System Requirements IBM PC or compatibles DOS version 2 0 or higher Covers representation manipulation and evaluation of geometric shapes Emphasizes Bernstein Bezier methods Written in an informal easy to read style **Modern Differential Geometry of Curves and Surfaces with Mathematica** Elsa Abbena,Simon Salamon,Alfred Gray,2017-09-06 Presenting theory while using Mathematica in a complementary way *Modern Differential Geometry of Curves and Surfaces with Mathematica* the third edition of Alfred Gray s famous textbook covers how to define and compute standard geometric functions using Mathematica for constructing new curves and surfaces from existing ones Since Gray s death authors Abbena and Salamon have stepped in to bring the book up to date While maintaining Gray s intuitive approach they reorganized the material to provide a clearer division between the text and the Mathematica code and added a Mathematica notebook as an appendix to each chapter They also address important new topics such as quaternions The approach of this book is at times more computational than is usual for a book on the subject For example Brioshi s formula for the Gaussian curvature in terms of the first fundamental form can be too complicated for use in hand calculations but Mathematica handles it easily either through computations or through graphing curvature Another part of Mathematica that can be used effectively in differential geometry is its special function library where nonstandard spaces of constant curvature can be defined in terms of elliptic functions and then plotted Using the techniques described in this book readers will understand concepts geometrically plotting curves and surfaces on a monitor and then printing them Containing more than 300 illustrations the book demonstrates how to use Mathematica to plot many interesting curves and surfaces Including as many topics of the classical differential geometry and surfaces as possible it highlights important theorems with many examples It includes 300 miniprograms for computing and plotting various geometric objects alleviating the drudgery of computing things such as the

curvature and torsion of a curve in space

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