

Graduate Texts in Mathematics

**Martin Golubitsky
Victor Guillemin**

Stable Mappings and Their Singularities



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Stable Mappings And Their Singularities Second Corrected Printing

Ensheng Dong



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Computational Algebraic Geometry Frederic Eyssette, Andre Galligo, 2012-12-06 The theory and practice of computation in algebraic geometry and related domains from a mathematical point of view has generated an increasing interest both for its rich theoretical possibilities and its usefulness in applications in science and engineering In fact it is one of the master keys for future significant improvement of the computer algebra systems e g Reduce Macsyma Maple Mathematica Axiom Macaulay etc that have become such useful tools for many scientists in a variety of disciplines The major themes covered in this volume arising from papers presented at the conference MEGA 92 were Effective methods and complexity issues in commutative algebra projective geometry real geometry and algebraic number theory Algebra geometric methods in algebraic computing and applications MEGA 92 was the second of a new series of European conferences on the general theme of Effective Methods in Algebraic Geometry It was held in Nice France on April 21 25 1992 and built on the themes presented at MEGA 90 Livorno Italy April 17 21 1990 The next conference MEGA 94 will be held in Santander Spain in the spring of 1994 The Organizing committee that initiated and supervises this biennial conference consists of A Conte Torino J H Davenport Bath A Galligo Nice D Yu Grigoriev Petersburg J Heintz Buenos Aires W Lassner Leipzig D Lazard Paris H M Moller Hagen T Mora Genova M Pohst D Usseldort T Recio Santander J J Normal Forms and Unfoldings for Local Dynamical Systems James Murdock, 2006-04-10 The subject of local dynamical systems is concerned with the following two questions 1 Given an $n \times n$ matrix A describe the behavior in a neighborhood of the origin of the solutions of all systems of differential equations having a rest point at the origin with linear part Ax that is all systems of the form $\dot{x} = Ax + f(x)$ where $x \in \mathbb{R}^n$ and the dots denote terms of quadratic and higher order 2 Describe the behavior near the origin of all systems close to a system of the type just described To answer these questions the following steps are employed 1 A normal form is obtained for the general system with linear part Ax The normal form is intended to be the simplest form into which any system of the intended type can be transformed by changing the coordinates in a prescribed manner 2 An unfolding of the normal form is obtained This is intended to be the simplest form into which all systems close to the original system can be transformed It will contain parameters called unfolding parameters that are not present in the normal form found in step 1 vi Preface 3 The normal form or its unfolding is truncated at some degree k and the behavior of the truncated system is studied Subject Guide to Books in Print, 1997 Artificial and Biological Vision Systems Guy A. Orban, H. H. Hagel, 1992 *Discrete Groups in Geometry and Analysis* Howe, 2013-11-22 **Topological Nonlinear Analysis II** Michele Matzeu, Alfonso Vignoli, 2012-12-06 The main purpose of the present volume is to give a survey of some of the most significant achievements obtained by topological methods in nonlinear analysis during the last three decades It is intended at least partly as a continuation of Topological Nonlinear Analysis Degree Singularity and Variations published in 1995 The survey articles presented are concerned with three main streams of research that is topological degree singularity theory and variational methods They reflect the

personal taste of the authors all of them well known and distinguished specialists A common feature of these articles is to start with a historical introduction and conclude with recent results giving a dynamic picture of the state of the art on these topics Let us mention the fact that most of the materials in this book were presented by the authors at the Second Topological Analysis Workshop on Degree Singularity and Variations Developments of the Last 25 Years held in June 1995 at Villa Tuscolana Frascati near Rome Michele Matzeu Alfonso Vignoli Editors Topological Nonlinear Analysis II Degree Singularity and Variations Classical Solutions for a Perturbed N Body System Gianfausto Dell'Antonio O Introduction In this review I shall consider the perturbed N body system i.e. a system composed of N point bodies of masses m_1, \dots, m_N described in cartesian coordinates by the system of equations $\ddot{x}_i = -\sum_{j=1}^N \frac{G m_j}{|x_i - x_j|^3}$ where $f = G$ **Towards the Mathematics of Quantum**

Field Theory Frédéric Paugam, 2014-02-20 This ambitious and original book sets out to introduce to mathematicians even including graduate students the mathematical methods of theoretical and experimental quantum field theory with an emphasis on coordinate free presentations of the mathematical objects in use This in turn promotes the interaction between mathematicians and physicists by supplying a common and flexible language for the good of both communities though mathematicians are the primary target This reference work provides a coherent and complete mathematical toolbox for classical and quantum field theory based on categorical and homotopical methods representing an original contribution to the literature The first part of the book introduces the mathematical methods needed to work with the physicists spaces of fields including parameterized and functional differential geometry functorial analysis and the homotopical geometric theory of non linear partial differential equations with applications to general gauge theories The second part presents a large family of examples of classical field theories both from experimental and theoretical physics while the third part provides an introduction to quantum field theory presents various renormalization methods and discusses the quantization of factorization algebras

A Course in Differential Geometry W. Klingenberg, 2013-03-14 This English edition could serve as a text for a first year graduate course on differential geometry as did for a long time the Chicago Notes of Chern mentioned in the Preface to the German Edition Suitable references for ordinary differential equations are Hurewicz W Lectures on ordinary differential equations MIT Press Cambridge Mass 1958 and for the topology of surfaces Massey Algebraic Topology Springer Verlag New York 1977 Upon David Hoffman fell the difficult task of transforming the tightly constructed German text into one which would mesh well with the more relaxed format of the Graduate Texts in Mathematics series There are some elaborations and several new figures have been added I trust that the merits of the German edition have survived whereas at the same time the efforts of David helped to elucidate the general conception of the Course where we tried to put Geometry before Formalism without giving up mathematical rigour I wish to thank David for his work and his enthusiasm during the whole period of our collaboration At the same time I would like to commend the editors of Springer Verlag for their patience and good advice Bonn Wilhelm Klingenberg June 1977 vii From the Preface to the German Edition This book

has its origins in a one semester course in differential geometry which I have given many times at Gottingen Mainz and Bonn

A Course in Mathematical Logic Yu.I. Manin, 2013-06-29 1 This book is above all addressed to mathematicians It is intended to be a textbook of mathematical logic on a sophisticated level presenting the reader with several of the most significant discoveries of the last ten or fifteen years These include the independence of the continuum hypothesis the Diophantine nature of enumerable sets the impossibility of finding an algorithmic solution for one or two old problems All the necessary preliminary material including predicate logic and the fundamentals of recursive function theory is presented systematically and with complete proofs We only assume that the reader is familiar with naive set theoretic arguments In this book mathematical logic is presented both as a part of mathematics and as the result of its self perception Thus the substance of the book consists of difficult proofs of subtle theorems and the spirit of the book consists of attempts to explain what these theorems say about the mathematical way of thought Foundational problems are for the most part passed over in silence Most likely logic is capable of justifying mathematics to no greater extent than biology is capable of justifying life 2 The first two chapters are devoted to predicate logic The presentation here is fairly standard except that semantics occupies a very dominant position truth is introduced before deducibility and models of speech in formal languages precede the systematic study of syntax *Scientific and Technical Books and Serials in Print*, 1989 A Course in Mathematical Logic Yu. I. Manin, 1977 1 This book is above all addressed to mathematicians It is intended to be a textbook of mathematical logic on a sophisticated level presenting the reader with several of the most significant discoveries of the last ten or fifteen years These include the independence of the continuum hypothesis the Diophantine nature of enumerable sets the impossibility of finding an algorithmic solution for one or two old problems All the necessary preliminary material including predicate logic and the fundamentals of recursive function theory is presented systematically and with complete proofs We only assume that the reader is familiar with naive set theoretic arguments In this book mathematical logic is presented both as a part of mathematics and as the result of its self perception Thus the substance of the book consists of difficult proofs of subtle theorems and the spirit of the book consists of attempts to explain what these theorems say about the mathematical way of thought Foundational problems are for the most part passed over in silence Most likely logic is capable of justifying mathematics to no greater extent than biology is capable of justifying life 2 The first two chapters are devoted to predicate logic The presentation here is fairly standard except that semantics occupies a very dominant position truth is introduced before deducibility and models of speech in formal languages precede the systematic study of syntax Chaotic Dynamics in Two-dimensional Noninvertible Maps C. Mira, 1996 This book is essentially devoted to complex properties Phase plane structure and bifurcations of two dimensional noninvertible maps i.e. maps having either a non unique inverse or no real inverse according to the plane point They constitute models of sets of discrete dynamical systems encountered in Engineering Control Signal Processing Electronics Physics Economics Life Sciences Compared to the studies made in the one

dimensional case the two dimensional situation remained a long time in an underdeveloped state It is only since these last years that the interest for this research has increased Therefore the book purpose is to give a global presentation of a matter available till now only in a partial form Fundamental notions and tools such as critical manifolds as the most part of results are accompanied by many examples and figures *Variational Methods in Theoretical Mechanics* J.T. Oden,J.N.

Reddy,2012-12-06 This is a textbook written for use in a graduate level course for students of mechanics and engineering science It is designed to cover the essential features of modern variational methods and to demonstrate how a number of basic mathematical concepts can be used to produce a unified theory of variational mechanics As prerequisite to using this text we assume that the student is equipped with an introductory course in functional analysis at a level roughly equal to that covered for example in Kolmogorov and Fomin Functional Analysis Vol I Graylock Rochester 1957 and possibly a graduate level course in continuum mechanics Numerous references to supplementary material are listed throughout the book We are indebted to Professor Jim Douglas of the University of Chicago who read an earlier version of the manuscript and whose detailed suggestions were extremely helpful in preparing the final draft He also gratefully acknowledge that much of our own research work on variational theory was supported by the U S Air Force Office of Scientific Research He are indebted to Mr Ming Goei Sheu for help in proofreading Finally we wish to express thanks to Mrs Marilyn Gude for her excellent and pains taking job of typing the manuscript J T ODEN J N REDDY Table of Contents PREFACE 1 INTRODUCTION 1 1 The Role of Variational Theory in Mechanics 1 1 2 Some Historical Comments 2 1 3 Plan of Study 5 7 2 MATHEMATICAL

FOUNDATIONS OF CLASSICAL VARIATIONAL THEORY 7 2 1 Introduction p-adic Numbers, p-adic Analysis, and Zeta-Functions NEAL Koblitz,2012-12-06 These lecture notes are intended as an introduction to p adic analysis on the elementary level For this reason they presuppose as little background as possible Besides about three semesters of calculus I presume some slight exposure to more abstract mathematics to the extent that the student won t have an adverse reaction to matrices with entries in a field other than the real numbers field extensions of the rational numbers or the notion of a continuous map of topological spaces The purpose of this book is twofold to develop some basic ideas of p adic analysis and to present two striking applications which it is hoped can be as effective pedagogically as they were historically in stimulating interest in the field The first of these applications is presented in Chapter II since it only requires the most elementary properties of \mathbb{Q} this is Mazur's construction by p means of p adic integration of the Kubota Leopoldt p adic zeta function which p adically interpolates the values of the Riemann zeta function at the negative odd integers My treatment is based on Mazur's Bourbaki notes unpublished **Introduction to Operator Theory I** A. Brown,C. Pearcy,2012-12-06 This book was written expressly to serve as a textbook for a one or two semester introductory graduate course in functional analysis Its soon to be published companion volume Operators on Hilbert Space is intended to be used as a textbook for a subsequent course in operator theory In writing these books we have naturally been concerned with the level of preparation

of the potential reader and roughly speaking we suppose him to be familiar with the approximate equivalent of a one semester course in each of the following areas linear algebra general topology complex analysis and measure theory Experience has taught us however that such a sequence of courses inevitably fails to treat certain topics that are important in the study of functional analysis and operator theory For example tensor products are frequently not discussed in a first course in linear algebra Likewise for the topics of convergence of nets and the Baire category theorem in a course in topology and the connections between measure and topology in a course in measure theory For this reason we have chosen to devote the first ten chapters of this volume entitled Part I to topics of a preliminary nature In other words Part I summarizes in considerable detail what a student should and eventually must know in order to study functional analysis and operator theory successfully

Using Algebraic Geometry David A Cox, John Little, Donal O'Shea, 2005-03-17 The discovery of new algorithms for dealing with polynomial equations and their implementation on fast inexpensive computers has revolutionized algebraic geometry and led to exciting new applications in the field This book details many uses of algebraic geometry and highlights recent applications of Grobner bases and resultants This edition contains two new sections a new chapter updated references and many minor improvements throughout *Pacific Journal of Mathematics* ,

The Mapping Class Group from the Viewpoint of Measure Equivalence Theory Yoshikata Kida, 2008 The author obtains some classification result for the mapping class groups of compact orientable surfaces in terms of measure equivalence In particular the mapping class groups of different closed surfaces cannot be measure equivalent Moreover the author gives various examples of discrete groups which are not measure equivalent to the mapping class groups In the course of the proof the author investigates amenability in a measurable sense for the actions of the mapping class group on the boundary at infinity of the curve complex and on the Thurston boundary and using this investigation proves that the mapping class group of a compact orientable surface is exact Books in Print Supplement , 1984

Singular Trajectories and their Role in Control Theory Bernard Bonnard, Monique Chyba, 2003-05-12 The role of singular trajectories in control theory is analysed in this volume that contains about 60 exercises and problems A section is devoted to the applications of singular trajectories to the optimisation of batch reactors The theoretical part based on the Martinet case concerns the singularity analysis of singular trajectories in sub Riemannian geometry An algorithm is given to evaluate conjugate points and a final chapter discusses open problems The volume will interest mathematicians and engineers

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