Robert B. Reisel

Elementary Theory of Metric Spaces

A Course in Constructing Mathematical Proofs

Universitext

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Elementary Theory Of Metric Spaces Universitext

R. Kannan,Carole K. Krueger

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Elementary Theory of Metric Spaces Robert B. Reisel,2012-12-06 Science students have to spend much of their time learning how to do laboratory work even if they intend to become theoretical rather than experimental scientists It is important that they understand how experiments are performed and what the results mean In science the validity of ideas is checked by experiments If a new idea does not work in the laboratory it must be discarded If it does work it is accepted at least tentatively In science therefore laboratory experiments are the touchstones for the acceptance or rejection of results Mathematics is different This is not to say that experiments are not part of the subject Numerical calculations and the examina tion of special and simplified cases are important in leading mathematicians to make conjectures but the acceptance of a conjecture as a theorem only comes when a proof has been constructed In other words proofs are to mathematics as laboratory experiments are to science Mathematics students must therefore learn to know what constitute valid proofs and how to construct them How is this done Like everything else by doing Mathematics students must try to prove results and then have their work criticized by experienced mathematicians They must critically examine proofs both correct and incorrect ones and develop an appreciation of good style They must of course start with easy proofs and build to more complicated ones Elementary Theory of Metric Spaces Robert B Reisel,1998-06-09 Lectures on Analysis on Metric Spaces Juha Heinonen,2001 The purpose of this book is to communicate some of the recent advances in this field while preparing the reader for more advanced study The material can be roughly divided into three different types classical standard but sometimes with a new twist and recent The author first studies basic covering theorems and their applications to analysis in metric measure spaces This is followed by a discussion on Sobolev spaces emphasizing principles that are valid in larger contexts The last few sections of the book present a basic theory of quasisymmetric maps between metric spaces Much of the material is recent and appears for the first time in book format Elementary Functional Analysis Marat V. Markin,2018-10-08 While there is a plethora of excellent but mostly tell it all books on the subject this one is intended to take a unique place in what today seems to be a still wide open niche for an introductory text on the basics of functional analysis to be taught within the existing constraints of the standard for the United States one semester graduate curriculum fifteen weeks with two seventy five minute lectures per week The book consists of seven chapters and an appendix taking the reader from the fundamentals of abstract spaces metric vector normed vector and inner product through the basics of linear operators and functionals the three fundamental principles the Hahn Banach Theorem the Uniform Boundedness Principle the Open Mapping Theorem and its equivalents the Inverse Mapping and Closed Graph Theorems with their numerous profound implications and certain interesting applications to the elements of the duality and reflexivity theory Chapter 1 outlines some necessary preliminaries while the Appendix gives a concise discourse on the celebrated Axiom of Choice its equivalents the Hausdorff Maximal Principle Zorn s Lemma and Zermello s Well Ordering Principle and ordered sets Being

designed as a text to be used in a classroom the book constantly calls for the student s actively mastering the knowledge of the subject matter It contains 112 Problems which are indispensable for understanding and moving forward Many important statements are given as problems a lot of these are frequently referred to and used in the main body There are also 376 Exercises throughout the text including Chapter 1 and the Appendix which require of the student to prove or verify a statement or an example fill in necessary details in a proof or provide an intermediate step or a counterexample They are also an inherent part of the material More difficult problems are marked with an asterisk many problem and exercises being supplied with existential hints The book is generous on Examples and contains numerous Remarks accompanying every definition and virtually each statement to discuss certain subtleties raise questions on whether the converse assertions are true whenever appropriate or whether the conditions are essential The prerequisites are set intentionally quite low the students not being assumed to have taken graduate courses in real or complex analysis and general topology to make the course accessible and attractive to a wider audience of STEM science technology engineering and mathematics graduate students or advanced undergraduates with a solid background in calculus and linear algebra With proper attention given to applications plenty of examples problems and exercises this well designed text is ideal for a one semester graduate course on the fundamentals of functional analysis for students in mathematics physics computer science and engineering Contents Preliminaries Metric Spaces Normed Vector and Banach Spaces Inner Product and Hilbert Spaces Linear Operators and Functionals Three Fundamental Principles of Linear Functional Analysis Duality and Reflexivity The Axiom of Choice and Equivalents **Higher-Dimensional Algebraic Geometry** Olivier Debarre,2013-03-09 Higher Dimensional Algebraic Geometry studies the classification theory of algebraic varieties This very active area of research is still developing but an amazing quantity of knowledge has accumulated over the past twenty years The author s goal is to provide an easily accessible introduction to the subject The book covers in the beginning preparatory and standard definitions and results moves on to discuss various aspects of the geometry of smooth projective varieties with many rational curves and finishes in taking the first steps towards Mori s minimal model program of classification of algebraic varieties by proving the cone and contraction theorems The book is well organized and the author has kept the number of concepts that are used but not proved to a minimum to provide a mostly self contained introduction to graduate students and researchers **Algebraic Surfaces** Lucian Badescu,2013-03-14 The aim of this book is to present certain fundamental facts in the theory of algebraic surfaces defined over an algebraically closed field lk of arbitrary characteristic The book is based on a series of talks given by the author in the Algebraic Geometry seminar at the Faculty of Mathematics University of Bucharest The main goal is the classification of nonsingular projective surfaces also called simply surfaces In the context of complex algebraic varieties the classification was obtained by Enriques and Castelnuovo Around 1960 Kodaira Kodl Kod2 revived and simplified the classification of complex algebraic surfaces and extended it to the case of compact analytic surfaces The problem of

classifying surfaces in arbitrary characteristic remained open The first step in this direction was the purely algebraic proof valid in arbitrary characteristic due to Zariski Zarl Zar2 of Castelnuovo s criterion of rationality Then Mumford Mum3 Mum4 introduced several new ideas and the classification of surfaces in positive characteristic be came possible Finally Bombieri and Mumford BMl BM2 completed the classification of surfaces in arbitrary characteristic Their result was the following The same types of surfaces that exist in the case when lk is the complex field arise in the general case if one sets aside certain pathologies that arise only in characteristic 2 or 3 Introduction to the Mori Program Kenji Matsuki,2013-04-17 Mori s Program is a fusion of the so called Minimal Model Program and the IItaka Program toward the biregular and or birational classification of higher dimensional algebraic varieties The author presents this theory in an easy and understandable way with lots of background motivation Prerequisites are those covered in Hartshorne s book Algebraic Geometry This is the first book in this extremely important and active field of research and will become a key resource for graduate students wanting to get into the area *Quantum Calculus* Victor Kac,Pokman Cheung,2012-12-06 Simply put quantum calculus is ordinary calculus without taking limits This undergraduate text develops two types of quantum calculi the q calculus and the h calculus As this book develops quantum calculus along the lines of traditional calculus the reader discovers with a remarkable inevitability many important notions and results of classical mathematics This book is written at the level of a first course in calculus and linear algebra and is aimed at undergraduate and beginning graduate students in mathematics computer science and physics It is based on lectures and seminars given by MIT Professor Kac over the last few years at MIT

A Course in Constructive Algebra Ray Mines,Fred Richman,Wim Ruitenburg,2012-09-10 The constructive approach to mathematics has enjoyed a renaissance caused in large part by the appearance of Errett Bishop s book Foundations of constructiue analysis in 1967 and by the subtle influences of the proliferation of powerful computers Bishop demonstrated that pure mathematics can be developed from a constructive point of view while maintaining a continuity with classical terminology and spirit much more of classical mathematics was preserved than had been thought possible and no classically false theorems resulted as had been the case in other constructive schools such as intuitionism and Russian constructivism The computers created a widespread awareness of the intuitive notion of an effecti ve procedure and of computation in principle in addi tion to stimulating the study of constructive algebra for actual implementation and from the point of view of recursive function theory In analysis constructive problems arise instantly because we must start with the real numbers and there is no finite procedure for deciding whether two given real numbers are equal or not the real numbers are not discrete The main thrust of constructive mathematics was in the direction of analysis although several mathematicians including Kronecker and van der waerden made important contributions to construc tive algebra Heyting working in intuitionistic algebra concentrated on issues raised by considering algebraic structures over the real numbers and so developed a handmaiden of analysis rather than a theory of discrete algebraic structures Entire and Meromorphic Functions Lee A.

Rubel,2012-12-06 Mathematics is a beautiful subject and entire functions is its most beautiful branch Every aspect of mathematics enters into it from analysis algebra and geometry all the way to differential equations and logic For example my favorite theorem in all of mathematics is a theorem of R NevanJinna that two functions meromorphic in the whole complex plane that share five values must be identical For real functions there is nothing that even remotely corresponds to this This book is an introduction to the theory of entire and meromorphic functions with a heavy emphasis on Nevanlinna theory otherwise known as value distribution theory Things included here that occur in no other book that we are aware of are the Fourier series method for entire and mero morphic functions a study of integer valued entire functions the Malliavin Rubel extension of Carlson s Theorem the sampling theorem and the first order theory of the ring of all entire functions and a final chapter on Tarski s High School Algebra Problem a topic from mathematical logic that connects with entire functions This book grew out of a set of classroom notes for a course given at the University of Illinois in 1963 but they have been much changed corrected expanded and updated partially for a similar course at the same place in 1993 My thanks to the many students who prepared notes and have given corrections and comments **Introduction to Arithmetical Functions** Paul J. McCarthy,2012-12-06 The theory of arithmetical functions has always been one of the more active parts of the theory of numbers The large number of papers in the bibliography most of which were written in the last forty years attests to its popularity Most textbooks on the theory of numbers contain some information on arithmetical functions usually results which are classical My purpose is to carry the reader beyond the point at which the textbooks abandon the subject In each chapter there are some results which can be described as contemporary and in some chapters this is true of almost all the material This is an introduction to the subject not a treatise It should not be expected that it covers every topic in the theory of arithmetical functions The bibliography is a list of papers related to the topics that are covered and it is at least a good approximation to a complete list within the limits I have set for myself In the case of some of the topics omitted from or slighted in the book I cite expository papers on those topics Heights of Polynomials and Entropy in Algebraic Dynamics Graham Everest,Thomas Ward,2013-06-29 Arithmetic geometry and algebraic dynamical systems are flourishing areas of mathematics Both subjects have highly technical aspects yet both of fer a rich supply of down to earth examples Both have much to gain from each other in techniques and more importantly as a means for posing and sometimes solving outstanding problems It is unlikely that new graduate students will have the time or the energy to master both This book is in tended as a starting point for either topic but is in content no more than an invitation We hope to show that a rich common vein of ideas permeates both areas and hope that further exploration of this commonality will result Central to both topics is a notion of complexity In arithmetic geome try height measures arithmetical complexity of points on varieties while in dynamical systems entropy measures the orbit complexity of maps The con nections between these two notions in explicit examples lie at the heart of the book The fundamental objects which appear in both settings are polynomi als so we are concerned

principally with heights of polynomials By working with polynomials rather than algebraic numbers we avoid local heights and p adic valuations **Algebra for Computer Science** Lars Garding,Torbjörn Tambour,2012-12-06 The aim of this book is to teach the reader the topics in algebra which are useful in the study of computer science In a clear concise style the author present the basic algebraic structures and their applications to such topics as the finite Fourier transform coding complexity and automata theory The book can also be read profitably as a course in applied algebra for mathematics students **Advanced Analysis** R. Kannan,Carole K. Krueger,2012-12-06 An Invitation to von Neumann Algebras V.S. Sunder,2012-12-06 Why This Book The theory of von Neumann algebras has been growing in leaps and bounds in the last 20 years It has always had strong connections with ergodic theory and mathematical physics It is now beginning to make contact with other areas such as differential geometry and K Theory There seems to be a strong case for putting together a book which a introduces a reader to some of the basic theory needed to appreciate the recent advances without getting bogged down by too much technical detail b makes minimal assumptions on the reader s background and c is small enough in size to not test the stamina and patience of the reader This book tries to meet these requirements In any case it is just what its title proclaims it to be an invitation to the exciting world of von Neumann algebras It is hoped that after perusing this book the reader might be tempted to fill in the numerous and technically capacious gaps in this exposition and to delve further into the depths of the theory For the expert it suffices to mention here that after some preliminaries the book commences with the Murray von Neumann classification of factors proceeds through the basic modular theory to the III classification of Connes and concludes with a discussion of crossed products Krieger s ratio set examples of factors and Takesaki s duality theorem *Orthogonality and Spacetime Geometry* Robert Goldblatt,2012-12-06 This book examines the geometrical notion of orthogonality and shows how to use it as the primitive concept on which to base a metric structure in affine geometry The subject has a long history and an extensive literature but whatever novelty there may be in the study presented here comes from its focus on geometries hav ing lines that are self orthogonal or even singular orthogonal to all lines The most significant examples concern four dimensional special relativistic spacetime Minkowskian geometry and its var ious sub geometries and these will be prominent throughout But the project is intended as an exercise in the foundations of geome try that does not presume a knowledge of physics and so in order to provide the appropriate intuitive background an initial chapter has been included that gives a description of the different types of line timelike spacelike lightlike that occur in spacetime and the physical meaning of the orthogonality relations that hold between them The coordinatisation of affine spaces makes use of constructions from projective geometry including standard results about the ma trix represent ability of certain projective transformations involu tions polarities I have tried to make the work sufficiently self contained that it may be used as the basis for a course at the ad vanced undergraduate level assuming only an elementary knowledge of linear and abstract algebra **Numerical Range** Karl E. Gustafson,Duggirala K.M. Rao,2012-12-06 The theories of

quadratic forms and their applications appear in many parts of mathematics and the sciences All students of mathematics have the opportunity to encounter such concepts and applications in their first course in linear algebra This subject and its extensions to infinite dimen sions comprise the theory of the numerical range W T There are two competing names for W T namely the numerical range of T and the field of values for T The former has been favored historically by the func tional analysis community the latter by the matrix analysis community It is a toss up to decide which is preferable and we have finally chosen the former because it is our habit it is a more efficient expression and because in recent conferences dedicated to W T even the linear algebra commu nity has adopted it Also one universally refers to the numerical radius and not to the field of values radius Originally Toeplitz and Hausdorff called it the Wertvorrat of a bilinear form so other good names would be value field or form values The Russian community has referred to it as the Hausdorff domain Murnaghan in his early paper first called it the region of the complex plane covered by those values for an n x n matrix T then the range of values of a Hermitian matrix then the field of values when he analyzed what he called the sought for region **Strange Phenomena in Convex and Discrete Geometry** Chuanming Zong,2012-12-06 Convex and discrete geometry is one of the most intuitive subjects in mathematics One can explain many of its problems even the most difficult such as the sphere packing problem what is the densest possible arrangement of spheres in an n dimensional space and the Borsuk problem is it possible to partition any bounded set in an n dimensional space into n 1 subsets each of which is strictly smaller in extent than the full set in terms that a layman can understand and one can reasonably make conjectures about their solutions with little training in mathematics **Foliations on Riemannian Manifolds** Philippe Tondeur,2012-12-06 A first approximation to the idea of a foliation is a dynamical system and the resulting decomposition of a domain by its trajectories This is an idea that dates back to the beginning of the theory of differential equations i e the seventeenth century Towards the end of the nineteenth century Poincare developed methods for the study of global qualitative properties of solutions of dynamical systems in situations where explicit solution methods had failed He discovered that the study of the geometry of the space of trajectories of a dynamical system reveals complex phenomena He emphasized the qualitative nature of these phenomena thereby giving strong impetus to topological methods A second approximation is the idea of a foliation as a decomposition of a manifold into submanifolds all being of the same dimension Here the presence of singular submanifolds corresponding to the singularities in the case of a dynamical system is excluded This is the case we treat in this text but it is by no means a comprehensive analysis On the contrary many situations in mathematical physics most definitely require singular foliations for a proper modeling The global study of foliations in the spirit of Poincare was begun only in the 1940 s by Ehresmann and Reeb

Bieberbach Groups and Flat Manifolds Leonard S. Charlap,2012-12-06 Many mathematics books suffer from schizophrenia and this is yet another On the one hand it tries to be a reference for the basic results on flat riemannian manifolds On the other hand it attempts to be a textbook which can be used for a second year graduate course My aim was to

keep the second personality dominant but the reference persona kept breaking out especially at the end of sections in the form of remarks that contain more advanced material To satisfy this reference persona I ll begin by telling you a little about the subject matter of the book and then I ll talk about the textbook aspect A flat riemannian manifold is a space in which you can talk about geometry e g distance angle curvature straight lines etc and in addition the geometry is locally the one we all know and love namely euclidean geometry This means that near any point of this space one can introduce coordinates so that with respect to these coordinates the rules of euclidean geometry hold These coordinates are not valid in the entire space so you can t conclude the space is euclidean space itself In this book we are mainly concerned with compact flat riemannian manifolds and unless we say otherwise we use the term flat manifold to mean compact flat riemannian manifold It turns out that the most important invariant for flat manifolds is the fundamental group

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Elementary Theory Of Metric Spaces Universitext**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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