

# Higher Mathematics from an Elementary Point of View

by

H. Rademacher

# Higher Mathematics From An Elementary Point Of View

**Salvatore COEN**



## **Higher Mathematics From An Elementary Point Of View:**

**Higher Mathematics from an Elementary Point of View** RADEMACHER,2013-09-11 *Higher Mathematics from an Elementary Point of View* RADEMACHER,2014-05-14 **Nonlinear Functional Analysis and its Applications** E. Zeidler,2013-12-11 As long as a branch of knowledge offers an abundance of problems it is full of vitality David Hilbert Over the last 15 years I have given lectures on a variety of problems in nonlinear functional analysis and its applications In doing this I have recommended to my students a number of excellent monographs devoted to specialized topics but there was no complete survey type exposition of nonlinear functional analysis making available a quick survey to the wide range of readers including mathematicians natural scientists and engineers who have only an elementary knowledge of linear functional analysis I have tried to close this gap with my five part lecture notes the first three parts of which have been published in the Teubner Texte series by Teubner Verlag Leipzig 1976 1977 and 1978 The present English edition was translated from a completely rewritten manuscript which is significantly longer than the original version in the Teubner Texte series The material is organized in the following way Part I Fixed Point Theorems Part II Monotone Operators Part III Variational Methods and Optimization Parts IV jV Applications to Mathematical Physics The exposition is guided by the following considerations a What are the supporting basic ideas and what intrinsic interrelations exist between them 3 In what relation do the basic ideas stand to the known propositions of classical analysis and linear functional analysis y What typical applications are there VII Preface viii Special emphasis is placed on motivation **Methods of Mathematical Economics** Joel N. Franklin,2013-06-29 In 1924 the firm of Julius Springer published the first volume of Methods of Mathematical Physics by Richard Courant and David Hilbert In the preface Courant says this Since the seventeenth century physical intuition has served as a vital source for mathematical problems and methods Recent trends and fashions have however weakened the connection between mathematics and physics mathematicians turning away from the roots of mathematics in intuition have concentrated on refinement and emphasized the postulational side of mathematics and at times have overlooked the unity of their science with physics and other fields In many cases physicists have ceased to appreciate the attitudes of mathematicians This rift is unquestionably a serious threat to science as a whole the broad stream of scientific development may split into smaller and smaller rivulets and dry out It seems therefore important to direct our efforts toward reuniting divergent trends by clarifying the common features and interconnections of many distinct and diverse scientific facts Only thus can the student attain some mastery of the material and the basis be prepared for further organic development of research The present work is designed to serve this purpose for the field of mathe matical physics Completeness is not attempted but it is hoped that access to a rich and important field will be facilitated by the book When I was a student the book of Courant and Hilbert was my bible *Geometry of Lengths, Areas, and Volumes* James W. Cannon,2017-11-16 This is the first of a three volume collection devoted to the geometry topology and curvature of 2

dimensional spaces The collection provides a guided tour through a wide range of topics by one of the twentieth century s masters of geometric topology The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology The first volume begins with length measurement as dominated by the Pythagorean Theorem three proofs with application to number theory areas measured by slicing and scaling where Archimedes uses the physical weights and balances to calculate spherical volume and is led to the invention of calculus areas by cut and paste leading to the Bolyai Gerwien theorem on squaring polygons areas by counting leading to the theory of continued fractions the efficient rational approximation of real numbers and Minkowski s theorem on convex bodies straight edge and compass constructions giving complete proofs including the transcendence of  $e$  and of the impossibility of squaring the circle duplicating the cube and trisecting the angle and finally to a construction of the Hausdorff Banach Tarski paradox that shows some spherical sets are too complicated and cloudy to admit a well defined notion of area

**Geometry of Surfaces** John Stillwell, 1995-02-03 The geometry of surfaces is an ideal starting point for learning geometry for among other reasons the theory of surfaces of constant curvature has maximal connectivity with the rest of mathematics This text provides the student with the knowledge of a geometry of greater scope than the classical geometry taught today which is no longer an adequate basis for mathematics or physics both of which are becoming increasingly geometric It includes exercises and informal discussions

**Higher Mathematics from an Elementary Point of View** Hans Rademacher, 1983 **Bulletin of the New York Mathematical Society**, 1894 The Queen of Mathematics Jay Goldman, 1997-11-15 This book takes the unique approach of examining number theory as it emerged in the 17th through 19th centuries It leads to an understanding of today s research problems on the basis of their historical development This book is a contribution to cultural history and brings a difficult subject within the reach of the serious reader The Rademacher Legacy to Mathematics George E. Andrews, David M. Bressoud, L. Alayne Parson, 1994 This book contains papers presented at the Hans Rademacher Centenary Conference held at Pennsylvania State University in July 1992 The astonishing breadth of Rademacher s mathematical interests is well represented in this volume The papers collected here range over such topics as modular forms partitions and  $q$  series Dedekind sums and Ramanujan type identities Rounding out the volume is the opening paper which presents a biography of Rademacher This volume is a fitting tribute to a remarkable mathematician whose work continues to influence mathematics today Ergodic Theory of Numbers Karma Dajani, Cor Kraaikamp, 2002-12-31 Ergodic Theory of Numbers looks at the interaction between two fields of mathematics number theory and ergodic theory as part of dynamical systems It is an introduction to the ergodic theory behind common number expansions like decimal expansions continued fractions and many others However its aim does not stop there For undergraduate students with sufficient background knowledge in real analysis and graduate students interested in the area it is also an introduction to a dynamical way of thinking The questions studied here are dynamical as well as number

theoretical in nature and the answers are obtained with the help of ergodic theory Attention is focused on concepts like measure preserving ergodicity natural extension induced transformations and entropy These concepts are then applied to familiar expansions to obtain old and new results in an elegant and straightforward manner What it means to be ergodic and the basic ideas behind ergodic theory will be explained along the way The subjects covered vary from classical to recent which makes this book appealing to researchers as well as students

**The Riemann Hypothesis** Peter B. Borwein, 2008 The Riemann Hypothesis has become the Holy Grail of mathematics in the century and a half since 1859 when Bernhard Riemann one of the extraordinary mathematical talents of the 19th century originally posed the problem While the problem is notoriously difficult and complicated even to state carefully it can be loosely formulated as the number of integers with an even number of prime factors is the same as the number of integers with an odd number of prime factors The Hypothesis makes a very precise connection between two seemingly unrelated mathematical objects namely prime numbers and the zeros of analytic functions If solved it would give us profound insight into number theory and in particular the nature of prime numbers This book is an introduction to the theory surrounding the Riemann Hypothesis Part I serves as a compendium of known results and as a primer for the material presented in the 20 original papers contained in Part II The original papers place the material into historical context and illustrate the motivations for research on and around the Riemann Hypothesis Several of these papers focus on computation of the zeta function while others give proofs of the Prime Number Theorem since the Prime Number Theorem is so closely connected to the Riemann Hypothesis The text is suitable for a graduate course or seminar or simply as a reference for anyone interested in this extraordinary conjecture

**Indra's Pearls** David Mumford, Caroline Series, David James Wright, David Wright, 2002-04-25 Felix Klein one of the great nineteenth century geometers rediscovered in mathematics an idea from Eastern philosophy the heaven of Indra contained a net of pearls each of which was reflected in its neighbour so that the whole Universe was mirrored in each pearl Klein studied infinitely repeated reflections and was led to forms with multiple co existing symmetries For a century these ideas barely existed outside the imagination of mathematicians However in the 1980s the authors embarked on the first computer exploration of Klein's vision and in doing so found many further extraordinary images Join the authors on the path from basic mathematical ideas to the simple algorithms that create the delicate fractal filigrees most of which have never appeared in print before Beginners can follow the step by step instructions for writing programs that generate the images Others can see how the images relate to ideas at the forefront of research

**Geometry In Advanced Pure Mathematics** Shaun Bullett, Tom Fearn, Frank Smith, 2017-03-07 This book leads readers from a basic foundation to an advanced level understanding of geometry in advanced pure mathematics Chapter by chapter readers will be led from a foundation level understanding to advanced level understanding This is the perfect text for graduate or PhD mathematical science students looking for support in algebraic geometry geometric group theory modular group holomorphic dynamics and hyperbolic

geometry syzygies and minimal resolutions and minimal surfaces Geometry in Advanced Pure Mathematics is the fourth volume of the LTCC Advanced Mathematics Series This series is the first to provide advanced introductions to mathematical science topics to advanced students of mathematics Edited by the three joint heads of the London Taught Course Centre for PhD Students in the Mathematical Sciences LTCC each book supports readers in broadening their mathematical knowledge outside of their immediate research disciplines while also covering specialized key areas **Elements of Number Theory**

John Stillwell, 2012-11-12 This book is intended to complement my Elements of Algebra and it is similarly motivated by the problem of solving polynomial equations However it is independent of the algebra book and probably easier In Elements of Algebra we sought solution by radicals and this led to the concepts of fields and groups and their fusion in the celebrated theory of Galois In the present book we seek integer solutions and this leads to the concepts of rings and ideals which merge in the equally celebrated theory of ideals due to Kummer and Dedekind Solving equations in integers is the central problem of number theory so this book is truly a number theory book with most of the results found in standard number theory courses However numbers are best understood through their algebraic structure and the necessary algebraic concepts rings and ideals have no better motivation than number theory The first nontrivial examples of rings appear in the number theory of Euler and Gauss The concept of ideal today as routine in ring theory as the concept of normal subgroup is in group theory also emerged from number theory and in quite heroic fashion Faced with failure of unique prime factorization in the arithmetic of certain generalized integers Kummer created in the 1840s a new kind of number to overcome the difficulty He called them ideal numbers because he did not know exactly what they were though he knew how they behaved

**Mathematicians in Bologna 1861-1960** Salvatore COEN, 2012-05-11 The scientific personalities of Luigi Cremona Eugenio Beltrami Salvatore Pincherle Federigo Enriques Beppo Levi Giuseppe Vitali Beniamino Segre and of several other mathematicians who worked in Bologna in the century 1861-1960 are examined by different authors in some cases providing different view points Most contributions in the volume are historical they are reproductions of original documents or studies on an original work and its impact on later research The achievements of other mathematicians are investigated for their present day importance *Bulletin of the American Mathematical Society* American Mathematical Society, 1894

*Topology as Fluid Geometry* James W. Cannon, 2017 This is the second of a three volume collection devoted to the geometry topology and curvature of 2 dimensional spaces The collection provides a guided tour through a wide range of topics by one of the twentieth century's masters of geometric topology The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology The second volume deals with the topology of 2 dimensional spaces The attempts encountered in Volume 1 to understand length and area in the plane lead to examples most easily described by the methods of topology fluid geometry finite curves of infinite length 1 dimensional curves of positive area space filling curves Peano curves 0 dimensional subsets of the plane

through which no straight path can pass Cantor sets etc Volume 2 describes such sets All of the standard topological results about 2 dimensional spaces are then proved such as the Fundamental Theorem of Algebra two proofs the No Retraction Theorem the Brouwer Fixed Point Theorem the Jordan Curve Theorem the Open Mapping Theorem the Riemann Hurwitz Theorem and the Classification Theorem for Compact 2 manifolds Volume 2 also includes a number of theorems usually assumed without proof since their proofs are not readily available for example the Zippin Characterization Theorem for 2 dimensional spaces that are locally Euclidean the Schoenflies Theorem characterizing the disk the Triangulation Theorem for 2 manifolds and the R L Moore s Decomposition Theorem so useful in understanding fractal sets

### **Excursions in Calculus**

Robert M. Young, 1992 This book explores the interplay between the two main currents of mathematics the continuous and the discrete

*Computations with Modular Forms* Gebhard Böckle, Gabor Wiese, 2014-01-23 This volume contains original research articles survey articles and lecture notes related to the Computations with Modular Forms 2011 Summer School and Conference held at the University of Heidelberg A key theme of the Conference and Summer School was the interplay between theory algorithms and experiment The 14 papers offer readers both instructional courses on the latest algorithms for computing modular and automorphic forms as well as original research articles reporting on the latest developments in the field The three Summer School lectures provide an introduction to modern algorithms together with some theoretical background for computations of and with modular forms including computing cohomology of arithmetic groups algebraic automorphic forms and overconvergent modular symbols The 11 Conference papers cover a wide range of themes related to computations with modular forms including lattice methods for algebraic modular forms on classical groups a generalization of the Maeda conjecture an efficient algorithm for special values of  $p$  adic Rankin triple product  $L$  functions arithmetic aspects and experimental data of Bianchi groups a theoretical study of the real Jacobian of modular curves results on computing weight one modular forms and more

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