

CAMBRIDGE TRACTS IN MATHEMATICS

137

**METRIC DIOPHANTINE
APPROXIMATION ON
MANIFOLDS**

V. I. BERNIK & M. M. DODSON

Metric Diophantine Approximation On Manifolds

**Siddhartha Bhattacharya, Tarun
Das, Anish Ghosh, Riddhi Shah**



Metric Diophantine Approximation On Manifolds:

Metric Diophantine Approximation on Manifolds V. I. Bernik, M. M. Dodson, 1999-10-14 This book is concerned with Diophantine approximation on smooth manifolds embedded in Euclidean space and its aim is to develop a coherent body of theory comparable with that which already exists for classical Diophantine approximation In particular this book deals with Khintchine type theorems and with the Hausdorff dimension of the associated null sets All researchers with an interest in Diophantine approximation will welcome this book *Metric Diophantine Approximation on Manifolds by Algebraic Points* Alessandro Pezzoni, 2020 *Number Theory Meets Wireless Communications* Victor Beresnevich, Alister Burr, Bobak Nazer, Sanju Velani, 2021-01-08 This volume explores the rich interplay between number theory and wireless communications reviewing the surprisingly deep connections between these fields and presenting new research directions to inspire future research The contributions of this volume stem from the Workshop on Interactions between Number Theory and Wireless Communication held at the University of York in 2016 The chapters written by leading experts in their respective fields provide direct overviews of highly exciting current research developments The topics discussed include metric Diophantine approximation geometry of numbers homogeneous dynamics algebraic lattices and codes network and channel coding and interference alignment The book is edited by experts working in number theory and communication theory It thus provides unique insight into key concepts cutting edge results and modern techniques that play an essential role in contemporary research Great effort has been made to present the material in a manner that is accessible to new researchers including PhD students The book will also be essential reading for established researchers working in number theory or wireless communications looking to broaden their outlook and contribute to this emerging interdisciplinary area *Dynamics and Analytic Number Theory* Dzmitry Badziahin, Alexander Gorodnik, Norbert Peyerimhoff, 2016-11-10 Written by leading experts this book explores several directions of current research at the interface between dynamics and analytic number theory Topics include Diophantine approximation exponential sums Ramsey theory ergodic theory and homogeneous dynamics The origins of this material lie in the Dynamics and Analytic Number Theory Easter School held at Durham University in 2014 Key concepts cutting edge results and modern techniques that play an essential role in contemporary research are presented in a manner accessible to young researchers including PhD students This book will also be useful for established mathematicians The areas discussed include ubiquitous systems and Cantor type sets in Diophantine approximation flows on nilmanifolds and their connections with exponential sums multiple recurrence and Ramsey theory counting and equidistribution problems in homogeneous dynamics and applications of thin groups in number theory Both dynamical and classical approaches towards number theoretical problems are also provided *Approximation by Algebraic Numbers* Yann Bugeaud, 2004-11-08 Algebraic numbers can approximate and classify any real number Here the author gathers together results about such approximations and classifications Written for a broad audience the book is accessible and self contained

with complete and detailed proofs Starting from continued fractions and Khintchine's theorem Bugeaud introduces a variety of techniques ranging from explicit constructions to metric number theory including the theory of Hausdorff dimension So armed the reader is led to such celebrated advanced results as the proof of Mahler's conjecture on S numbers the Jarnik Besicovitch theorem and the existence of T numbers Brief consideration is given both to the p-adic and the formal power series cases Thus the book can be used for graduate courses on Diophantine approximation some 40 exercises are supplied or as an introduction for non experts Specialists will appreciate the collection of over 50 open problems and the rich and comprehensive list of more than 600 references

Recent Trends in Ergodic Theory and Dynamical Systems

Siddhartha Bhattacharya, Tarun Das, Anish Ghosh, Riddhi Shah, 2015-01-26 This volume contains the proceedings of the International Conference on Recent Trends in Ergodic Theory and Dynamical Systems in honor of S G Dani's 65th Birthday held December 26-29 2012 in Vadodara India This volume covers many topics of ergodic theory dynamical systems number theory and probability measures on groups Included are papers on Teichmüller dynamics Diophantine approximation iterated function systems random walks and algebraic dynamical systems as well as two surveys on the work of S G Dani

Harmonic Maps Between Riemannian Polyhedra James Eells, B. Fuglede, 2001-07-30 Harmonic maps between smooth Riemannian manifolds play a ubiquitous role in differential geometry Examples include geodesics viewed as maps minimal surfaces holomorphic maps and Abelian integrals viewed as maps to a circle The theory of such maps has been extensively developed over the last 40 years and has significant applications throughout mathematics This 2001 book extends that theory in full detail to harmonic maps between broad classes of singular Riemannian polyhedra with many examples being given The analytical foundation is based on existence and regularity results which use the potential theory of Riemannian polyhedral domains viewed as Brelot harmonic spaces and geodesic space targets in the sense of Alexandrov and Busemann The work sets out much material on harmonic maps between singular spaces and will hence serve as a concise source for all researchers working in related fields

Restricted Orbit Equivalence for Actions of Discrete Amenable Groups Janet Whalen Kammeyer, Daniel J. Rudolph, 2002-04-18 This monograph offers a broad investigative tool in ergodic theory and measurable dynamics The motivation for this work is that one may measure how similar two dynamical systems are by asking how much the time structure of orbits of one system must be distorted for it to become the other Different restrictions on the allowed distortion will lead to different restricted orbit equivalence theories These include Ornstein's Isomorphism theory Kakutani Equivalence theory and a list of others By putting such restrictions in an axiomatic framework a general approach is developed that encompasses all of these examples simultaneously and gives insight into how to seek further applications

Isoperimetric Inequalities Isaac Chavel, 2001-07-23 This advanced introduction emphasizes the variety of ideas techniques and applications of the subject

Affine Hecke Algebras and Orthogonal Polynomials I. G.

Macdonald, 2003-03-20 First account of a theory created by Macdonald of a class of orthogonal polynomial which is related to

mathematical physics

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Reconstruction.doc Data: Copy the chart on your own paper and turn in with questions and your fossil Table 1

Characteristics of *S. crassirostris* Wingspan (centimeters)? Jaw ... Using Mathematics in Fossil Reconstruction How would scientists predict the pterosaur's probable wingspan from these pieces? Data from similar pterosaurs found throughout the world were available from ... Early pterosaur reconstructions - Archosaur Musings Jul 6, 2009 — ... fossil (though the ones in the background look far more ... Mesozoic Vertebrates The Munich palaeo lab; Mike Taylor's site Mike's research ...

Schematic skeletal reconstruction of the small Jurassic ... Pterosaurs are an extinct group of Mesozoic flying reptiles, whose fossil record extends from approximately 210 to 66 million years ago. They were integral ... Roger Black Gold Cross Trainer

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