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Foundations of a Structural Theory of Set Addition

G. A. Freiman

Foundations Of A Structural Theory Of Set Addition

Krishnaswami Alladi,P.D.T.A. Elliott,Andrew Granville,G. Tenenbaum

Foundations Of A Structural Theory Of Set Addition:

Foundations of a Structural Theory of Set Addition G. A. Freiman,2007-03-08 *Foundations of a Structural Theory of Set Addition* G. A. Freiman,1973 Additive Number Theory: Inverse Problems and the Geometry of Sumsets Melvyn B. Nathanson,1996-08-22 Many classical problems in additive number theory are direct problems in which one starts with a set A of natural numbers and an integer H 2 and tries to describe the structure of the sumset hA consisting of all sums of h elements of A By contrast in an inverse problem one starts with a sumset hA and attempts to describe the structure of the underlying set A In recent years there has been ramrkable progress in the study of inverse problems for finite sets of integers In particular there are important and beautiful inverse theorems due to Freiman Kneser Pl nnecke Vosper and others This volume includes their results and culminates with an elegant proof by Ruzsa of the deep theorem of Freiman that a finite set of integers with a small sumset must be a large subset of an n dimensional arithmetic progression

Foundations of a structural theory of set addition (Načala strukturnoj teorii složenija množestv, engl.) By G.A.Freiman Grigorij Abelevič Frejman,1973 **Structural Additive Theory** David J. Grynkiewicz,2013-05-30 Nestled between number theory combinatorics algebra and analysis lies a rapidly developing subject in mathematics variously known as additive combinatorics additive number theory additive group theory and combinatorial number theory Its main objects of study are not abelian groups themselves but rather the additive structure of subsets and subsequences of an abelian group i e sumsets and subsequence sums This text is a hybrid of a research monograph and an introductory graduate textbook With few exceptions all results presented are self contained written in great detail and only reliant upon material covered in an advanced undergraduate curriculum supplemented with some additional Algebra rendering this book usable as an entry level text However it will perhaps be of even more interest to researchers already in the field The majority of material is not found in book form and includes many new results as well Even classical results when included are given in greater generality or using new proof variations The text has a particular focus on results of a more exact and precise nature results with strong hypotheses and yet stronger conclusions and on fundamental aspects of the theory Also included are intricate results often neglected in other texts owing to their complexity Highlights include an extensive treatment of Freiman Homomorphisms and the Universal Ambient Group of sumsets A B an entire chapter devoted to Hamidoune s Isoperimetric Method a novel generalization allowing infinite summands in finite sumset questions weighted zero sum problems treated in the general context of viewing homomorphisms as weights and simplified proofs of the Kemperman Structure Theorem and the Partition Theorem for setpartitions **Combinatorial Number Theory and Additive Group Theory** Alfred Geroldinger,Imre Ruzsa,2009-06-04 Additive combinatorics is a relatively recent term coined to comprehend the developments of the more classical additive number theory mainly focussed on problems related to the addition of integers Some classical problems like the Waring problem on the sum of k th powers or the Goldbach conjecture are genuine examples of the original questions

addressed in the area One of the features of contemporary additive combinatorics is the interplay of a great variety of mathematical techniques including combinatorics harmonic analysis convex geometry graph theory probability theory algebraic geometry or ergodic theory This book gathers the contributions of many of the leading researchers in the area and is divided into three parts The two first parts correspond to the material of the main courses delivered Additive combinatorics and non unique factorizations by Alfred Geroldinger and Sumsets and structure by Imre Z Ruzsa The third part collects the notes of most of the seminars which accompanied the main courses and which cover a reasonably large part of the methods techniques and problems of contemporary additive combinatorics *Representation Theory, Dynamical Systems, and Asymptotic Combinatorics* V. Kaimanovich,A. Lodkin,2011-11-09 This volume devoted to the 70th birthday of the well known St Petersburg mathematician A M Vershik contains a collection of articles by participants in the conference Representation Theory Dynamical Systems and Asymptotic Combinatorics held in St Petersburg in June of 2004 The book is suitable for graduate students and researchers interested in combinatorial and dynamical aspects of group representation theory

Mathematics of Data Fusion I.R. Goodman,R.P. Mahler,Hung T. Nguyen,2013-03-14 Data fusion or information fusion are names which have been primarily assigned to military oriented problems In military applications typical data fusion problems are multisensor multitarget detection object identification tracking threat assessment mission assessment and mission planning among many others However it is clear that the basic underlying concepts underlying such fusion procedures can often be used in nonmilitary applications as well The purpose of this book is twofold First to point out present gaps in the way data fusion problems are conceptually treated Second to address this issue by exhibiting mathematical tools which treat combination of evidence in the presence of uncertainty in a more systematic and comprehensive way These techniques are based essentially on two novel ideas relating to probability theory the newly developed fields of random set theory and conditional and relational event algebra This volume is intended to be both an update on research progress on data fusion and an introduction to potentially powerful new techniques fuzzy logic random set theory and conditional and relational event algebra Audience This volume can be used as a reference book for researchers and practitioners in data fusion or expert systems theory or for graduate students as text for a research seminar or graduate level course **Unsolved Problems in Number Theory** Richard Guy,2013-03-09 Mathematics is kept alive by the appearance of new unsolved problems problems posed from within mathematics itself and also from the increasing number of disciplines where mathematics is applied This book provides a steady supply of easily understood if not easily solved problems which can be considered in varying depths by mathematicians at all levels of mathematical maturity For this new edition the author has included new problems on symmetric and asymmetric primes sums of higher powers Diophantine m tuples and Conway s RATS and palindromes The author has also included a useful new feature at the end of several of the sections lists of references to OEIS Neil Sloane s Online Encyclopedia of Integer Sequences About the first Edition many talented young

mathematicians will write their first papers starting out from problems found in this book Andr s S rk zi MathSciNet

Analytic Number Theory for Beginners Prapanpong Pongsriiam,2023-06-02 This new edition of Analytic Number Theory for Beginners presents a friendly introduction to analytic number theory for both advanced undergraduate and beginning graduate students and offers a comfortable transition between the two levels The text starts with a review of elementary number theory and continues on to present less commonly covered topics such as multiplicative functions the floor function the use of big O little o and Vinogradov notation as well as summation formulas Standard advanced topics follow such as the Dirichlet L function Dirichlet s Theorem for primes in arithmetic progressions the Riemann Zeta function the Prime Number Theorem and new in this second edition sieve methods and additive number theory The book is self contained and easy to follow Each chapter provides examples and exercises of varying difficulty and ends with a section of notes which include a chapter summary open questions historical background and resources for further study Since many topics in this book are not typically covered at such an accessible level Analytic Number Theory for Beginners is likely to fill an important niche in today s selection of titles in this field **Introduction to Analytic Number Theory** A. G. Postnikov,1988-12-31 Aimed at a level between textbooks and the latest research monographs this book is directed at researchers teachers and graduate students interested in number theory and its connections with other branches of science Choosing to emphasize topics not sufficiently covered in the literature the author has attempted to give as broad a picture as possible of the problems of analytic number theory **Number Theory** K. Alladi,2006-11-17 Number Theory David V. Chudnovsky,Gregory V. Chudnovsky,Harvey Cohn,Melvyn B. Nathanson,2006-11-15 This is the third Lecture Notes volume to be produced in the framework of the New York Number Theory Seminar The papers contained here are mainly research papers N *Analytic and Elementary Number Theory* Krishnaswami Alladi,P.D.T.A. Elliott,Andrew Granville,G. Tenenbaum,2013-12-21 This volume contains a collection of papers in Analytic and Elementary Number Theory in memory of Professor Paul Erd s one of the greatest mathematicians of this century Written by many leading researchers the papers deal with the most recent advances in a wide variety of topics including arithmetical functions prime numbers the Riemann zeta function probabilistic number theory properties of integer sequences modular forms partitions and q series Audience Researchers and students of number theory analysis combinatorics and modular forms will find this volume to be stimulating **Groups St Andrews 2013** C. M. Campbell,M. R. Quick,E. F. Robertson,C. M. Roney-Dougal,2015-10-22 Every four years leading researchers gather to survey the latest developments in all aspects of group theory Since 1981 the proceedings of those meetings have provided a regular snapshot of the state of the art in group theory and helped to shape the direction of research in the field This volume contains selected papers from the 2013 meeting held in St Andrews It begins with major articles from each of the four main speakers Emmanuel Breuillard Paris Sud Martin Liebeck Imperial College London Alan Reid Texas and Karen Vogtmann Cornell These are followed by in alphabetical order survey articles contributed by other conference participants

which cover a wide spectrum of modern group theory   *Qualitative Theory of Differential Equations* Zhifen Zhang,1992 Subriemannian geometries also known as Carnot Caratheodory geometries can be viewed as limits of Riemannian geometries They also arise in physical phenomenon involving geometric phases or holonomy Very roughly speaking a subriemannian geometry consists of a manifold endowed with a distribution meaning a k plane field or subbundle of the tangent bundle called horizontal together with an inner product on that distribution If k n the dimension of the manifold we get the usual Riemannian geometry Given a subriemannian geometry we can define the distance between two points just as in the Riemannian case except we are only allowed to travel along the horizontal lines between two points The book is devoted to the study of subriemannian geometries their geodesics and their applications It starts with the simplest nontrivial example of a subriemannian geometry the two dimensional isoperimetric problem reformulated as a problem of finding subriemannian geodesics Among topics discussed in other chapters of the first part of the book the author mentions an elementary exposition of Gromov s surprising idea to use subriemannian geometry for proving a theorem in discrete group theory and Cartan s method of equivalence applied to the problem of understanding invariants diffeomorphism types of distributions There is also a chapter devoted to open problems The second part of the book is devoted to applications of subriemannian geometry In particular the author describes in detail the following four physical problems Berry s phase in quantum mechanics the problem of a falling cat righting herself that of a microorganism swimming and a phase problem arising in the N body problem He shows that all these problems can be studied using the same underlying type of subriemannian geometry that of a principal bundle endowed with G invariant metrics Reading the book requires introductory knowledge of differential geometry and it can serve as a good introduction to this new exciting area of mathematics This book provides an introduction to and a comprehensive study of the qualitative theory of ordinary differential equations It begins with fundamental theorems on existence uniqueness and initial conditions and discusses basic principles in dynamical systems and Poincare Bendixson theory The authors present a careful analysis of solutions near critical points of linear and nonlinear planar systems and discuss indices of planar critical points A very thorough study of limit cycles is given including many results on quadratic systems and recent developments in China Other topics included are the critical point at infinity harmonic solutions for periodic differential equations systems of ordinary differential equations on the torus and structural stability for systems on two dimensional manifolds This books is accessible to graduate students and advanced undergraduates and is also of interest to researchers in this area Exercises are included at the end of each chapter   <u>Erdös Centennial</u> László Lovász,Imre Ruzsa,Vera T. Sós,2014-01-24 Paul Erd s was one of the most influential mathematicians of the twentieth century whose work in number theory combinatorics set theory analysis and other branches of mathematics has determined the development of large areas of these fields In 1999 a conference was organized to survey his work his contributions to mathematics and the far reaching impact of his work on many branches of mathematics On the 100th anniversary of his birth this volume

undertakes the almost impossible task to describe the ways in which problems raised by him and topics initiated by him indeed whole branches of mathematics continue to flourish Written by outstanding researchers in these areas these papers include extensive surveys of classical results as well as of new developments   **Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan** Josef Dick,Frances Y. Kuo,Henryk Woźniakowski,2018-05-23 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career The book also presents state of the art knowledge in many computational fields such as quasi Monte Carlo and Monte Carlo methods for multivariate integration multi level methods finite element methods uncertainty quantification spherical designs and integration on the sphere approximation and interpolation of multivariate functions oscillatory integrals and in general in information based complexity and tractability as well as in a range of other topics The book also tells the life story of the renowned mathematician family man colleague and friend who has been an inspiration to many of us The reader may especially enjoy the story from the perspective of his family his wife his daughter and son as well as grandchildren who share their views of Ian The clear message of the book is that Ian H Sloan has been a role model in science and life   **Building Bridges II** Imre Bárány,Gyula O. H. Katona,Attila Sali,2020-02-04 This volume collects together research and survey papers written by invited speakers of the conference celebrating the 70th birthday of L szl Lov sz The topics covered include classical subjects such as extremal graph theory coding theory design theory applications of linear algebra and combinatorial optimization as well as recent trends such as extensions of graph limits online or statistical versions of classical combinatorial problems and new methods of derandomization L szl Lov sz is one of the pioneers in the interplay between discrete and continuous mathematics and is a master at establishing unexpected connections building bridges between seemingly distant fields His invariably elegant and powerful ideas have produced new subfields in many areas and his outstanding scientific work has defined and shaped many research directions in the last 50 years The 14 contributions presented in this volume all of which are connected to L szl Lov sz s areas of research offer an excellent overview of the state of the art of combinatorics and related topics and will be of interest to experienced specialists as well as young researchers

Topology of Foliations: An Introduction Ichirō Tamura,1992 This book provides historical background and a complete overview of the qualitative theory of foliations and differential dynamical systems Senior mathematics majors and graduate students with background in multivariate calculus algebraic and differential topology differential geometry and linear algebra will find this book an accessible introduction Upon finishing the book readers will be prepared to take up research in this area Readers will appreciate the book for its highly visual presentation of examples in low dimensions The author focuses particularly on foliations with compact leaves covering all the important basic results Specific topics covered include

dynamical systems on the torus and the three sphere local and global stability theorems for foliations the existence of compact leaves on three spheres and foliated cobordisms on three spheres Also included is a short introduction to the theory of differentiable manifolds

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Foundations Of A Structural Theory Of Set Addition**

In a global inundated with monitors and the cacophony of instantaneous interaction, the profound power and mental resonance of verbal artistry frequently fade into obscurity, eclipsed by the constant assault of noise and distractions. However, set within the musical pages of **Foundations Of A Structural Theory Of Set Addition**, a captivating work of fictional brilliance that pulses with natural emotions, lies an wonderful trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this interesting opus guides readers on an emotional odyssey, softly revealing the latent potential and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key subjects, dissect its interesting writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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