

Structural Additive Theory Gryniewicz David J

Additive Combinatorics Analytic Number Theory, Modular Forms and q-Hypergeometric Series Multiplicative Ideal Theory and Factorization Theory Modular Forms and Related Topics in Number Theory Recent Progress in Ring and Factorization Theory Structural Additive Theory Colloquium Mathematicum Structural Additive Theory Mathematical Reviews Acta Arithmetica Collectanea Mathematica Ars Combinatoria Dissertation Abstracts International Science Citation Index Theory and Practice of Additive Manufacturing A New Theory of Additive Manufacturing Predictive Theoretical and Computational Approaches for Additive Manufacturing Selected Topics in the Theory of Additive Processes Bela Bajnok George E. Andrews Scott Chapman B. Ramakrishnan Matej Brešar David J. Gryniewicz David Gryniewicz Tuhin Mukherjee Sanjay Kumar National Academies of Sciences, Engineering, and Medicine August Michał Zapała

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additive combinatorics a menu of research problems is the first book of its kind to provide readers with an opportunity to actively explore the relatively new field of additive

combinatorics the author has written the book specifically for students of any background and proficiency level from beginners to advanced researchers it features an extensive menu of research projects that are challenging and engaging at many different levels the questions are new and unsolved incrementally attainable and designed to be approachable with various methods the book is divided into five parts which are compared to a meal the first part is called ingredients and includes relevant background information about number theory combinatorics and group theory the second part appetizers introduces readers to the book s main subject through samples the third part sides covers auxiliary functions that appear throughout different chapters the book s main course so to speak is entrees it thoroughly investigates a large variety of questions in additive combinatorics by discussing what is already known about them and what remains unsolved these include maximum and minimum sumset size spanning sets critical numbers and so on the final part is pudding and features numerous proofs and results many of which have never been published features the first book of its kind to explore the subject students of any level can use the book as the basis for research projects the text moves gradually through five distinct parts which is suitable both for beginners without prerequisites and for more advanced students includes extensive proofs of propositions and theorems each of the introductory chapters contains numerous exercises to help readers

gathered from the 2016 gainesville number theory conference honoring krishna alladi on his 60th birthday these proceedings present recent research in number theory extensive and detailed this volume features 40 articles by leading researchers on topics in analytic number theory probabilistic number theory irrationality and transcendence diophantine analysis partitions basic hypergeometric series and modular forms readers will also find detailed discussions of several aspects of the path breaking work of srinivasa ramanujan and its influence on current research many of the papers were motivated by alladi s own research on partitions and q series as well as his earlier work in number theory alladi is well known for his contributions in number theory and mathematics his research interests include combinatorics discrete mathematics sieve methods probabilistic and analytic number theory diophantine approximations partitions and q series identities graduate

students and researchers will find this volume a valuable resource on new developments in various aspects of number theory

this book consists of both expository and research articles solicited from speakers at the conference entitled arithmetic and ideal theory of rings and semigroups held september 22 26 2014 at the university of graz graz austria it reflects recent trends in multiplicative ideal theory and factorization theory and brings together for the first time in one volume both commutative and non commutative perspectives on these areas which have their roots in number theory commutative algebra and algebraic geometry topics discussed include topological aspects in ring theory prüfer domains of integer valued polynomials and their monadic submonoids and semigroup algebras it will be of interest to practitioners of mathematics and computer science and researchers in multiplicative ideal theory factorization theory number theory and algebraic geometry

this book collects the papers presented at the conference on number theory held at the kerala school of mathematics kozhikode kerala india from december 10 14 2018 the conference aimed at bringing the active number theorists and researchers in automorphic forms and allied areas to demonstrate their current research works this book benefits young research scholars postdoctoral fellows and young faculty members working in these areas of research

this proceedings volume gathers a selection of cutting edge research in both commutative and non commutative ring theory and factorization theory the papers were presented at the conference on rings and factorization held at the university of graz austria july 10 14 2023 the volume covers a wide range of topics including multiplicative ideal theory dedekind prüfer krull and mori rings non commutative rings and algebras rings of integer valued polynomials topological aspects in ring theory factorization theory in rings and semigroups and direct sum decomposition of modules the conference also featured two special sessions dedicated to matej brešar and sophie frisch on the occasion of their 60th birthdays this volume is aimed at graduate students and researchers in these areas as well as related fields and provides new insights into both classical and contemporary research

in ring and factorization theory

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

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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

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toward student learning outcomes theory and practice of additive manufacturing is ideal for undergraduate and graduate students and instructors in introductory additive manufacturing courses as well as practicing engineers and researchers working in industries that use additive manufacturing technologies including aerospace automotive and consumer goods

this is the first book on additive manufacturing that provides an original theory for the entire subject it is the culmination of a search for the root cause of manufacturing problems that occur in practice the author finds a reason why there are only two types of layer arrangement for manufacturing products and divides fabrication problems in additive manufacturing into two types solvable and unsolvable this allows readers to anticipate avoid difficulty in manufacturing saving materials time and resources

additive manufacturing am methods have great potential for promoting transformative research in many fields across the vast spectrum of engineering and materials science am is one of the leading forms of advanced manufacturing which enables direct computer aided design cad to part production without part specific tooling in october 2015 the national academies of sciences engineering and medicine convened a workshop of experts from diverse communities to examine predictive theoretical and computational approaches for various am technologies while experimental workshops in am have been held in the past this workshop uniquely focused on theoretical and computational approaches and involved areas such as simulation based engineering and science integrated computational materials engineering mechanics materials science manufacturing processes and other specialized areas this publication summarizes the presentations and discussions from the workshop

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