Bridge to Abstract Mathematics

Raiph W. Oberste-Vorth Aristides Houzakitis Bonita A. Lawrence



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Bridge to Abstract Mathematics Ralph W. Oberste-Vorth, Aristides Mouzakitis, Bonita A. Lawrence, 2020-02-20 A Bridge to Abstract Mathematics will prepare the mathematical novice to explore the universe of abstract mathematics Mathematics is a science that concerns theorems that must be proved within the constraints of a logical system of axioms and definitions rather than theories that must be tested revised and retested Readers will learn how to read mathematics beyond popular computational calculus courses Moreover readers will learn how to construct their own proofs The book is intended as the primary text for an introductory course in proving theorems as well as for self study or as a reference Throughout the text some pieces usually proofs are left as exercises Part V gives hints to help students find good approaches to the exercises Part I introduces the language of mathematics and the methods of proof The mathematical content of Parts II through IV were chosen so as not to seriously overlap the standard mathematics major In Part II students study sets functions equivalence and order relations and cardinality Part III concerns algebra The goal is to prove that the real numbers form the unique up to isomorphism ordered field with the least upper bound In the process we construct the real numbers starting with the natural numbers Students will be prepared for an abstract linear algebra or modern algebra course Part IV studies analysis Continuity and differentiation are considered in the context of time scales nonempty closed subsets of the real numbers Students will be prepared for advanced calculus and general topology courses There is a lot of room for instructors to skip and choose topics from among those that are presented Sets, Functions, and Logic Keith Devlin, 2003-11-24 Keith Devlin You know him You ve read his columns in MAA Online you ve heard him on the radio and you ve seen his popular mathematics books In between all those activities and his own research he s been hard at work revising Sets Functions and Logic his standard setting text that has smoothed the road to pure mathematics for legions of undergraduate students Now in its third edition Devlin has fully reworked the book to reflect a new generation The narrative is more lively and less textbook like Remarks and asides link the topics presented to the real world of students experience The chapter on complex numbers and the discussion of formal symbolic logic are gone in favor of more exercises and a new introductory chapter on the nature of mathematics one that motivates readers and sets the stage for the challenges that lie ahead Students crossing the bridge from calculus to higher mathematics need and deserve all the help they can get Sets Functions and Logic Third Edition is an affordable little book that all of your transition course students not only can afford but will actually read and enjoy and learn from About the Author Dr Keith Devlin is Executive Director of Stanford University's Center for the Study of Language and Information and a Consulting Professor of Mathematics at Stanford He has written 23 books one interactive book on CD ROM and over 70 published research articles He is a Fellow of the American Association for the Advancement of Science a World Economic Forum Fellow and a former member of the Mathematical Sciences Education Board of the National Academy of Sciences Dr Devlin is also one of the world's leading popularizers of mathematics Known as The Math Guy on NPR's

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or three ll lester calculus sequence is required for successfuluse of this book On unit groups of modular group algebras Sven Bodo Wirsing, 2019-12-16 In this book we analyse unit groups of group algebras KG for non abelian p groups G and fields K of characteristic p By calculating the core and the normaliser of U in 1 rad KG the group of normalized units for every subgroup U of G we generalise results of K R Pearson and D B Coleman using fixed points of enhanced group actions Our concept of so called end commutable ordering leads to a new method of studying the center of 1 rad KG We proof that a finite group G is nilpotent if and only if every conjugacy class possesses an end commutable ordering As a simple consequence we get a result of A A Bovdi and Z Patay which shows how the exponent of the center of 1 rad KG can be determined by calculations purely within the group G We describe the groups for which this exponent is extremal and calculate the exponent for various group classes e g regular groups special groups Sylow subgroups of linear and symmetric groups and group constructions e g wreath products central products special group extensions isoclinic groups Another application of our concept of end commutable ordering is a description of the invariants of the center of 1 rad KG for a finite field K They are determined purely by the group G and the field K and can be visualized by a special graph the class graph As a consequence of our results we prove that the center the derived subgroups and the p th power subgroup of 1 rad KG are not cyclic Furthermore we obtain some properties of unit groups of group algebras for extra special 2 groups and fields of characteristic 2 Finally we investigate the behaviour of the center and other characteristics e g the exponent the class of nilpotency the Baer length the degree of commutativity for the chain of iterated unit groups of modular group algebras For this we use Lie and radical algebra methods

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- 1. Understanding the eBook Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - The Rise of Digital Reading Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Personalized Recommendations
 - Bridge To Abstract Mathematics Mathematical Association Of America Textbooks User Reviews and Ratings
 - Bridge To Abstract Mathematics Mathematical Association Of America Textbooks and Bestseller Lists
- 5. Accessing Bridge To Abstract Mathematics Mathematical Association Of America Textbooks Free and Paid eBooks
 - Bridge To Abstract Mathematics Mathematical Association Of America Textbooks Public Domain eBooks
 - Bridge To Abstract Mathematics Mathematical Association Of America Textbooks eBook Subscription Services

- Bridge To Abstract Mathematics Mathematical Association Of America Textbooks Budget-Friendly Options
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 - o ePub, PDF, MOBI, and More
 - Bridge To Abstract Mathematics Mathematical Association Of America Textbooks Compatibility with Devices
 - Bridge To Abstract Mathematics Mathematical Association Of America Textbooks Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Highlighting and Note-Taking Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Interactive Elements Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
- 8. Staying Engaged with Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
- 9. Balancing eBooks and Physical Books Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Setting Reading Goals Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Fact-Checking eBook Content of Bridge To Abstract Mathematics Mathematical Association Of America Textbooks
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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