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Abstract Algebra is articulate in the description of a formal system, based on a set of axioms and proved theorems. Here, the accounting system is defined as a formal system with 10 axioms. It applies the following abstract algebra concepts: 1) Balance Vector: a single column vector of accounting elements, with total sum zero (balanced account).

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Algebraic Models for Accounting Systems

This book describes the construction of algebraic models which represent the operations of the double entry accounting system. It gives a novel, comprehensive, proof based treatment of the topic, using such concepts from abstract algebra as automata, digraphs, monoids and quotient structures.

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Algebraic Models For Accounting Systems

This book derives a basis for algebraic models to represent double entry accounting systems. The comprehensive, proof-based development motivates with clear, lucid explanation of basic accounting operations and generally from very elementary mathematical concepts. Undergraduates with a basic grasp of matrices, group theory, set theory, linear algebra and the rudiments of accounting can follow the reasoning easily.

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The paper describes an algebraic structure which embodies the essential features of the double-entry accounting system. The structure has the benefits of providing reliable means to record the balances of the accounts of the system and to apply transactions to the accounts. It will detect transactions which are of an undesirable type or which lead to inadmissible balances, thus preserving the ...

An algebraic model for the representation of accounting ...
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The basic model says that assets equal liabilities plus owner’s equity. In other words, the total assets of a firm equal the total of its liabilities and owner’s equity. Furthermore, revenue increases the owner’s equity and expenses decrease the owner’s equity.

The Accounting Model of Double-Entry Accounting - dummies
The fundamental algebraic equation in accounting is "assets = liability + capital." Capital is commonly called equity. If the only thing you own is a car, and you are making car payments, you can use this formula to depict this particular financial situation as the car's market value = the amount you owe + equity, or $15,000 = $10,000 + $5,000.

How Do Accountants Use Algebra? | Career Trend
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This book describes the construction of algebraic models which represent the operations of the double-entry accounting system. It presents a novel and comprehensive treatment of the subject and utilizes the methods and tools of abstract algebra, including automata, graph theory and monoids.

This is the third edition of the book. In addition to introducing the main concepts of modern algebra, new topic are added: categories and functors; an introduction to representations of finite groups; projective and injective modules; an introduction to noetherian rings and modules and to Hilbert’s Nullstellensatz. There is ample material for a two semester course in abstract algebra.

This book constitutes the refereed conference proceedings of the 14th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2015, held in Delft, The Netherlands, in October 2015. The 40 revised full papers presented together with 1 keynote panel were carefully reviewed and selected from 65 submissions. They are organized in the following topical sections: adoption; big and open data; e-business, e-services,, and e-society; and witness workshop.

Offering a fresh take on laser engineering, Laser Modeling: A Numerical Approach with Algebra and Calculus presents algebraic models and traditional calculus-based methods in tandem to make concepts easier to digest and apply in the real world. Each technique is introduced alongside a practical, solved example based on a commercial laser. Assuming some knowledge of the nature of light, emission of radiation, and basic atomic physics, the text: Explains how to formulate an accurate gain threshold equation as well as determine small-signal gain Discusses gain saturation and introduces a novel pass-by-pass model for rapid implementation of "what if?" scenarios Outlines the calculus-based Rigrod approach in a simplified manner to aid in comprehension Considers thermal effects on solid-state lasers and other lasers with new and efficient quasi-three-level materials Demonstrates how the convolution method is used to predict the effect of temperature drift on a DPSS system Describes the technique and technology of Q-switching and provides a simple model for predicting output power Addresses non-linear optics and supplies a simple model for calculating optimal crystal length Examines common laser systems, answering basic design questions and summarizing parameters Includes downloadable Microsoft® ExcelTM spreadsheets, allowing models to be customized for specific lasers Don’t let the mathematical rigor of solutions get in the way of understanding the concepts. Laser Modeling: A Numerical Approach with Algebra and Calculus covers laser theory in an accessible way that can be applied immediately, and numerically, to real laser systems.

Contains 25 surveys in algebra and model theory, all written by leading experts in the field. The surveys are based around talks given at conferences held in Essen, 1994, and Dresden, 1995. Each contribution is written in such a way as to highlight the ideas that were discussed at the conferences, and also to stimulate open research problems in a form accessible to the whole mathematical community. The topics include field and ring theory as well as groups, ordered algebraic structure and their relationship to model theory. Several papers deal with infinite permutation groups, abelian groups, modules and their relatives and representations. Model theoretic aspects include quantifier elimination in skew fields, Hilbert's 17th problem, (aleph-0)-categorical structures and Boolean algebras. Moreover symmetry questions and automorphism groups of orders are covered. This work contains 25 surveys in algebra and model theory, each is written in such a way as to highlight the ideas that were discussed at Conferences, and also to stimulate open research problems in a form accessible to the whole mathematical community.

This book, Algebraic Computability and Enumeration Models: Recursion Theory and Descriptive Complexity, presents new techniques with functorial models to address important areas on pure mathematics and computability theory from the algebraic viewpoint. The reader is first introduced to categories and functorial models, with Kleene algebra examples for languages. Functorial models for Peano arithmetic are described toward important computational complexity areas on a Hilbert program, leading to computability with initial models. Infinite language categories are also introduced to explain descriptive complexity with recursive computability with admissible sets and urelements. Algebraic and categorical realizability is staged on several levels, addressing new computability questions with omitting types realizably. Further applications to computing with ultrafilters on sets and Turing degree computability are examined. Functorial models computability is presented with algebraic trees realizing intuitionistic types of models. New homotopy techniques are applied to Marin Lof types of computations with model categories. Functorial computability, induction, and recursion are examined in view of the above, presenting new computability techniques with monad transformations and projective sets. This informative volume will give readers a complete new feel for models, computability, recursion sets, complexity, and realizability. This book pulls together functorial thoughts, models, computability, sets, recursion, arithmetic hierarchy, filters, with real tree computing areas, presented in a very intuitive manner for university teaching, with exercises for every chapter. The book will also prove valuable for faculty in computer science and mathematics.

This book explains the financial appraisal of capital budgeting projects. The coverage extends from the development of basic concepts, principles and techniques to the application of them in increasingly complex and real-world situations. Identification and estimation (including forecasting) of cash flows, project appraisal formulae, and the application of net present value (NPV), internal rate of return (IRR) and other project evaluation criteria are illustrated with a variety of calculation examples. Risk analysis is extensively covered by the use of risk adjusted discount rate, certainty equivalent, sensitivity, simulation and Monte Carlo analysis. The NPV and IRR models are further applied to forestry, property and international investments. Resource constraints are introduced to the capital budgeting decisions with a variety of worked examples using linear programming technique. All calculations are extensively supported by Excel workbooks on the Web, and each chapter is well reviewed by end of chapter questions.

Presented in a comprehensive manner, this book provides a comprehensive foundation in algebraic approaches for the analysis of different types of social networks such as multiple, signed, and affiliation networks. The study of such configurations corresponds to the structural analysis within the social sciences, and the methods applied for the analysis are in the areas of abstract algebra, combinatorics, and graph theory. Current research in social networks has moved toward the examination of more realistic but also more complex social relations by which agents or actors are connected in multiple ways. Addressing this trend, this book offers hands-on training of the algebraic procedures presented along with the computer package multiplex, written by the book’s author specifically to perform analyses of multiple social networks. An introductory section on both complex networks and for R will feature, however the subjects themselves correspond to advanced courses on social network analysis with the specialization on algebraic models and methods.