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Linear Algebra with Applications



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Challenges and Strategies in Teaching Linear Algebra Sepideh Stewart, Christine Andrews-Larson, Avi

Berman, Michelle Zandieh, 2018-02-01 This book originated from a Discussion Group Teaching Linear Algebra that was held at the 13th International Conference on Mathematics Education ICME 13 The aim was to consider and highlight current efforts regarding research and instruction on teaching and learning linear algebra from around the world and to spark new collaborations As the outcome of the two day discussion at ICME 13 this book focuses on the pedagogy of linear algebra with a particular emphasis on tasks that are productive for learning The main themes addressed include theoretical perspectives on the teaching and learning of linear algebra empirical analyses related to learning particular content in linear algebra the use of technology and dynamic geometry software and pedagogical discussions of challenging linear algebra tasks Drawing on the expertise of mathematics education researchers and research mathematicians with experience in teaching linear algebra this book gathers work from nine countries Austria Germany Israel Ireland Mexico Slovenia Turkey the USA and Zimbabwe

Nonlinear Optimization H. A. Eiselt, Carl-Louis Sandblom, 2019-11-09 This book provides a comprehensive introduction to nonlinear programming featuring a broad range of applications and solution methods in the field of continuous optimization It begins with a summary of classical results on unconstrained optimization followed by a wealth of applications from a diverse mix of fields e g location analysis traffic planning and water quality management to name but a few In turn the book presents a formal description of optimality conditions followed by an in depth discussion of the main solution techniques Each method is formally described and then fully solved using a numerical example

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Simon Rubinstein-Salzedo, 2018-09-27 This text introduces cryptography from its earliest roots to cryptosystems used today for secure online communication Beginning with classical ciphers and their cryptanalysis this book proceeds to focus on modern public key cryptosystems such as Diffie Hellman ElGamal RSA and elliptic curve cryptography with an analysis of vulnerabilities of these systems and underlying mathematical issues such as factorization algorithms Specialized topics such as zero knowledge proofs cryptographic voting coding theory and new research are covered in the final section of this book Aimed at undergraduate students this book contains a large selection of problems ranging from straightforward to difficult and can be used as a textbook for classes as well as self study Requiring only a solid grounding in basic mathematics this

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Mathematical Foundations of Data Science Using R Frank Emmert-Streib, Salissou Moutari, Matthias Dehmer, 2020-06-08 In order best exploit the incredible quantities of data being generated in most diverse disciplines data sciences increasingly gain worldwide importance The book gives the mathematical foundations to handle data properly It introduces basics and functionalities of the R programming language which has become the indispensable tool for data sciences Thus it delivers the reader the skills needed to build own tool kits of a modern data scientist

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