



Fundamentals of

# Electric Circuits

Second Edition

**Charles K. Alexander**  
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# Tensors For Circuits 2nd Edition

**Gérard Favier**



## **Tensors For Circuits 2nd Edition:**

**Electric Machines** Charles A. Gross, 2006-10-20 The two major broad applications of electrical energy are information processing and energy processing Hence it is no wonder that electric machines have occupied a large and revered space in the field of electrical engineering Such an important topic requires a careful approach and Charles A Gross Electric Machines offers the most balanced a

**Dynamics of Nonholonomic Systems** Juru Isaakovich Ne\_mark, Nikola\_Alekseevich Fufaev, 2004-07-16 The goal of this book is to give a comprehensive and systematic exposition of the mechanics of nonholonomic systems including the kinematics and dynamics of nonholonomic systems with classical nonholonomic constraints the theory of stability of nonholonomic systems technical problems of the directional stability of rolling systems and the general theory of electrical machines The book contains a large number of examples and illustrations

**The Matrix and Tensor Quarterly**, 1980

**Tensor Calculus and Analytical Dynamics** John G. Papastavridis, 2018-12-12 Tensor Calculus and Analytical Dynamics provides a concise comprehensive and readable introduction to classical tensor calculus in both holonomic and nonholonomic coordinates as well as to its principal applications to the Lagrangean dynamics of discrete systems under positional or velocity constraints The thrust of the book focuses on formal structure and basic geometrical physical ideas underlying most general equations of motion of mechanical systems under linear velocity constraints Written for the theoretically minded engineer Tensor Calculus and Analytical Dynamics contains uniquely accessible treatments of such intricate topics as tensor calculus in nonholonomic variables Pfaffian nonholonomic constraints related integrability theory of Frobenius The book enables readers to move quickly and confidently in any particular geometry based area of theoretical or applied mechanics in either classical or modern form

**The Publishers' Trade List Annual**, 1970

*Matrix and Tensor Decompositions in Signal Processing, Volume 2* Gérard Favier, 2021-08-31 The second volume will deal with a presentation of the main matrix and tensor decompositions and their properties of uniqueness as well as very useful tensor networks for the analysis of massive data Parametric estimation algorithms will be presented for the identification of the main tensor decompositions After a brief historical review of the compressed sampling methods an overview of the main methods of retrieving matrices and tensors with missing data will be performed under the low rank hypothesis Illustrative examples will be provided

[Tensors in Electrical Engineering](#) John Williamson Lynn, 1963

**Introduction To Elasticity Theory For Crystal Defects (Second Edition)** Robert W Balluffi, 2016-08-25 The book presents a unified and self sufficient and reader friendly introduction to the anisotropic elasticity theory necessary to model a wide range of point line planar and volume type crystal defects e g vacancies dislocations interfaces inhomogeneities and inclusions The necessary elasticity theory is first developed along with basic methods for obtaining solutions This is followed by a detailed treatment of each defect type Included are analyses of their elastic fields and energies their interactions with imposed stresses and image stresses and the interactions that occur between them all employing the basic methods

introduced earlier All results are derived in full with intermediate steps shown and it can be shown is avoided A particular effort is made to describe and compare different methods of solving important problems Numerous exercises with solutions are provided to strengthen the reader's understanding and extend the immediate text In the 2nd edition an additional chapter has been added which treats the important topic of the self forces that are experienced by defects that are extended in more than one dimension A considerable number of exercises have been added which expand the scope of the book and furnish further insights Numerous sections of the book have been rewritten to provide additional clarity and scope The major aim of the book is to provide in one place a unique and complete introduction to the anisotropic theory of elasticity for defects written in a manner suitable for both students and professionals

### **Iterative Solution Methods** Owe

Axelsson,1996-03-29 This book deals primarily with the numerical solution of linear systems of equations by iterative methods The first part of the book is intended to serve as a textbook for a numerical linear algebra course The material assumes the reader has a basic knowledge of linear algebra such as set theory and matrix algebra however it is demanding for students who are not afraid of theory To assist the reader the more difficult passages have been marked the definitions for each chapter are collected at the beginning of the chapter and numerous exercises are included throughout the text The second part of the book serves as a monograph introducing recent results in the iterative solution of linear systems mainly using preconditioned conjugate gradient methods This book should be a valuable resource for students and researchers alike wishing to learn more about iterative methods

*Manifolds, Tensor Analysis, and Applications* Ralph Abraham, Jerrold E. Marsden, Tudor Ratiu, 2012-12-06 The purpose of this book is to provide core material in nonlinear analysis for mathematicians physicists engineers and mathematical biologists The main goal is to provide a working knowledge of manifolds dynamical systems tensors and differential forms Some applications to Hamiltonian mechanics fluid mechanics electromagnetism plasma dynamics and control theory are given in Chapter 8 using both invariant and index notation The current edition of the book does not deal with Riemannian geometry in much detail and it does not treat Lie groups principal bundles or Morse theory Some of this is planned for a subsequent edition Meanwhile the authors will make available to interested readers supplementary chapters on Lie Groups and Differential Topology and invite comments on the book's contents and development Throughout the text supplementary topics are given marked with the symbols  $\square$  and  $\square$  This device enables the reader to skip various topics without disturbing the main flow of the text Some of these provide additional background material intended for completeness to minimize the necessity of consulting too many outside references We treat finite and infinite dimensional manifolds simultaneously This is partly for efficiency of exposition Without advanced applications using manifolds of mappings the study of infinite dimensional manifolds can be hard to motivate

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