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FOURTH EDITION



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Wenbin Ji



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Electronic Circuit Theory Henry J. Zimmermann, Samuel J. Mason, 1957

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Fractional-Order Electrical Circuit Theory Bo Zhang,Xujian Shu,2021-08-16 This book presents a concise and insightful view of the knowledge on fractional order electrical circuits which belongs to the subject of Electric Engineering and involves mathematics of fractional calculus It offers an overview of fractional calculus and then describes and analyzes the basic theories and properties of fractional order elements and fractional order electrical circuit composed of fractional order elements Therein the fundamental theorems time domain analysis steady state analysis complex frequency domain analysis and state variable analysis of fractional order electrical circuit are included The fractional order two port networks and generalized fractional order linear electrical circuits are also mentioned Therefore this book provides readers with enough background and understanding to go deeper into the topic of fractional order electrical circuit so that it is useful as a textbook for courses related to fractional order elements fractional order electrical circuits etc This book is intended for students without an extensive mathematical background and is suitable for advanced undergraduate and graduate students engineers and researchers who focus on the fractional order elements electrical circuits and systems Electric Circuit Theory R. Yorke,2013-10-22 Electric Circuit Theory provides a concise coverage of the framework of electrical engineering Comprised of six chapters this book emphasizes the physical process of electrical engineering rather than abstract

mathematics Chapter 1 deals with files circuits and parameters while Chapter 2 covers the natural and forced response of simple circuit Chapter 3 talks about the sinusoidal steady state and Chapter 4 discusses the circuit analysis The fifth chapter tackles frequency response of networks and the last chapter covers polyphase systems This book will be of great help to electrical electronics and control engineering students or any other individuals who require a substantial understanding of the physical aspects of electrical engineering **Higher National Engineering** Mike Tooley,Lloyd Dingle,2007-06-01 Higher National Engineering 2nd Edition is a new edition of this extremely successful course book covering the compulsory core units of the 2003 BTEC Higher National Engineering schemes Full coverage is given of the common core units for HNC D units 1 3 for all pathways as well as the two different Engineering Principles units unit 5 for mechanical and electrical electronic engineering and the additional unit required at HND for these pathways Engineering Design unit 6 Students following the HNC and HND courses will find this book essential reading as it covers the core material they will be following through the duration of their course Knowledge check questions and activities are included throughout along with learning summaries innovative Another View features and applied maths integrated alongside the appropriate areas of engineering studies The result is a clear straightforward and easily accessible text which encourages independent study Like the syllabus itself this book is ideal for students progressing to HNC HND from AVCE as well as A Level and BTEC National The topics covered are also suitable reading for students following BTEC Foundation Degrees in Engineering Technology as well as Foundation Degrees in Engineering run by UK institutions nationwide **Electric Circuits and Networks** K. S. Suresh Kumar,K. S.. Suresh Kumar,2008-08-05 Electric Circuits and Networks is designed to serve as a textbook for a two semester undergraduate course on basic electric circuits and networks The book builds on the subject from its basic principles Spread over seventeen chapters the book can be taught with varying degree of emphasis on its six subsections based on the course requirement Written in a student friendly manner its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks **Electrical and Electronic Principles and Technology** J. O. Bird,2000 In this book John Bird introduces electrical principles and technology through examples rather than theory enabling students to develop a sound understanding of the principles needed by technicians in fields such as electrical engineering electronics and telecommunications Over 600 problems and 400 worked examples are included This new edition of Electrical and Electronic Principles and Technology is fully in line with the new 2000 GNVQ specifications from Edexcel and City Guilds covering optional units for Advanced GNVQ Electrical and Electronic Principles Further Electrical and Electronic Principles and Electrical Power Technology It is also designed to cover the Intermediate GNVQ optional unit Electronic Principles and Applications the BTEC National units in Electrical and Electronic Principles and the relevant part of the City Guilds Telecommunications Principles course The wide range of syllabuses covered reflects the fact that this book is a leading international text on this important area of study for student technicians and engineers Free support pack containing worked

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