

# Fundamentals Of Electrical Engineering I Don Johnson

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the general response to the first edition of the book was very encouraging the authors feel that their work has been amply rewarded and wish to express their deep sense of gratitude in common to the large number of readers who have used it and in particular to those whom who have sent helpful suggestions from time to time for the improvement of the book to enhance the utility of the book it has been decided to bring out the multicolor edition of book there are three salient features multicolor edition

this book extensive pruning of the solved examples in the text majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions

in 1993 the first edition of the electrical engineering handbook set a new standard for breadth and depth of coverage in an engineering reference work now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today every electrical engineer should have an opportunity to expand his expertise with this definitive guide in a single volume this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry government or academia this well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering a compendium of physical chemical material and mathematical data completes this comprehensive resource every major topic is thoroughly covered and every important concept is defined described and illustrated conceptually challenging but carefully explained articles are equally valuable to the practicing engineer researchers and students a distinguished advisory board and contributors including many of the leading authors professors and researchers in the field today assist noted author and professor richard dorf in offering complete coverage of this rapidly expanding field no other single volume available today offers this combination of broad coverage and depth of exploration of the topics the electrical engineering handbook will be an invaluable resource for electrical engineers for years to come

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real world engineering problems are rarely if ever neatly divided into mechanical electrical chemical civil and other categories engineers from all disciplines eventually encounter computer and electronic controls and instrumentation which require at least a basic knowledge of electrical and other engineering specialties as well as associated economics and environmental political and social issues co authored by charles gross one of the most well known and respected professors in the field of electric machines and power engineering and his world renowned colleague thad roppel fundamentals of electrical engineering provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical for instance civil engineers must contend with commercial electrical service and lighting design issues mechanical engineers have to deal with motors in hvac applications and chemical engineers are forced to handle problems involving process control simple and easy to use yet more than sufficient in rigor and coverage of fundamental concepts this resource teaches ee fundamentals but omits the typical analytical methods that hold little relevance for the audience the authors provide many examples to illustrate concepts as well as homework problems to help readers understand and apply presented material in many cases courses for non electrical engineers or non ees have presented watered down classical ee material resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching to remedy this situation and create more well rounded

practitioners the authors focus on the true ee needs of non ees as determined through their own teaching experience as well as significant input from non ee faculty the book provides several important contemporary interdisciplinary examples to support this approach the result is a full color modern narrative that bridges the various ee and non ee curricula and serves as a truly relevant course that students and faculty can both enjoy

with this volume giorgio rizzoni offers a comprehensive introduction to electrical engineering the book has been designed to be suitable for those taking the course as an option or those coming to the subject for the first time

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