

# Using Computer Tools for Electric Circuits

FIFTH EDITION



James W. Nilsson  
Susan A. Riedel



# Using Computer Tools For Electric Circuits

**John Greenbaum**



## Using Computer Tools For Electric Circuits:

Electric Circuits James William Nilsson, Susan A. Riedel, 1996 *Electric Circuits* James William Nilsson, Susan A. Riedel, 1996 Part of the Addison Wesley world student series this volume accompanies Using Computer Tools for Electric Circuits and is a comprehensive textbook for an introductory course in electric circuit analysis Using Computer Tools for Electric Circuits James William Nilsson, Susan A. Riedel, 1996 This text offers an explanation of the concepts and techniques of electric circuits for the beginning engineer It includes examples to illustrate concepts chapter objectives highlighted key terms margin notes and end of chapter problem sets and a tutorial supplement **Library of Congress Subject Headings** Library of Congress, 1991 **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1991 *Electrical Machines* Slobodan N. Vukosavic, 2012-10-26 *Electrical Machines* primarily covers the basic functionality and the role of electrical machines in their typical applications The effort of applying coordinate transforms is justified by obtaining a more intuitive concise and easy to use model In this textbook mathematics is reduced to a necessary minimum and priority is given to bringing up the system view and explaining the use and external characteristics of machines on their electrical and mechanical ports Covering the most relevant concepts relating to machine size torque and power the author explains the losses and secondary effects outlining cases and conditions in which some secondary phenomena are neglected While the goal of developing and using machine mathematical models equivalent circuits and mechanical characteristics persists through the book the focus is kept on physical insight of electromechanical conversion process Details such as the slot shape and the disposition of permanent magnets and their effects on the machine parameters and performance are also covered **Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania**, 1997 United States Navy Occupational Handbook United States. Bureau of Naval Personnel, 1968 *Railway Signaling and Communications*, 1961 THE USE OF COMPUTERS IN ELECTRICAL ENGINEERING EDUCATION NORMAN R. SCOTT, 1962 *Analysis and Design of Electronic Circuits Using PCs* John Greenbaum, 1988 Since the mid 1960s the digital computer has been used as a design tool by electronic circuit designers Computer software programs called ECAP and 2 SCEPTRE were among the earliest circuit analysis codes to gain general acceptance by the design community These programs permitted circuit performance to be simulated for small signal frequency responses dc operation points and transient responses to varying input stimuli Unfortunately accessibility to programs such as these by the design community of that era was quite limited since they could be used solely on large expensive mainframe computers Only a fraction of the circuit designers at that time were employed by companies large enough to afford the acquisition and maintenance costs of these large computers The availability of personal computers PCs at moderate prices has dramatically changed this picture The sophistication of the PCs as well as the software that can be run on them has potentially put circuit performance simulation at every designer's desk Since the early days of ECAP and SCEPTRE the amount of software for circuit design and

analysis has grown enormously At the same time the sophistication of the analyses provided by this software has correspondingly increased In addition the accuracy of simulation software has improved to where laboratory measurements have become a verification of the analyses rather than vice versa     Software Tools and Techniques for Electronic Engineers  
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