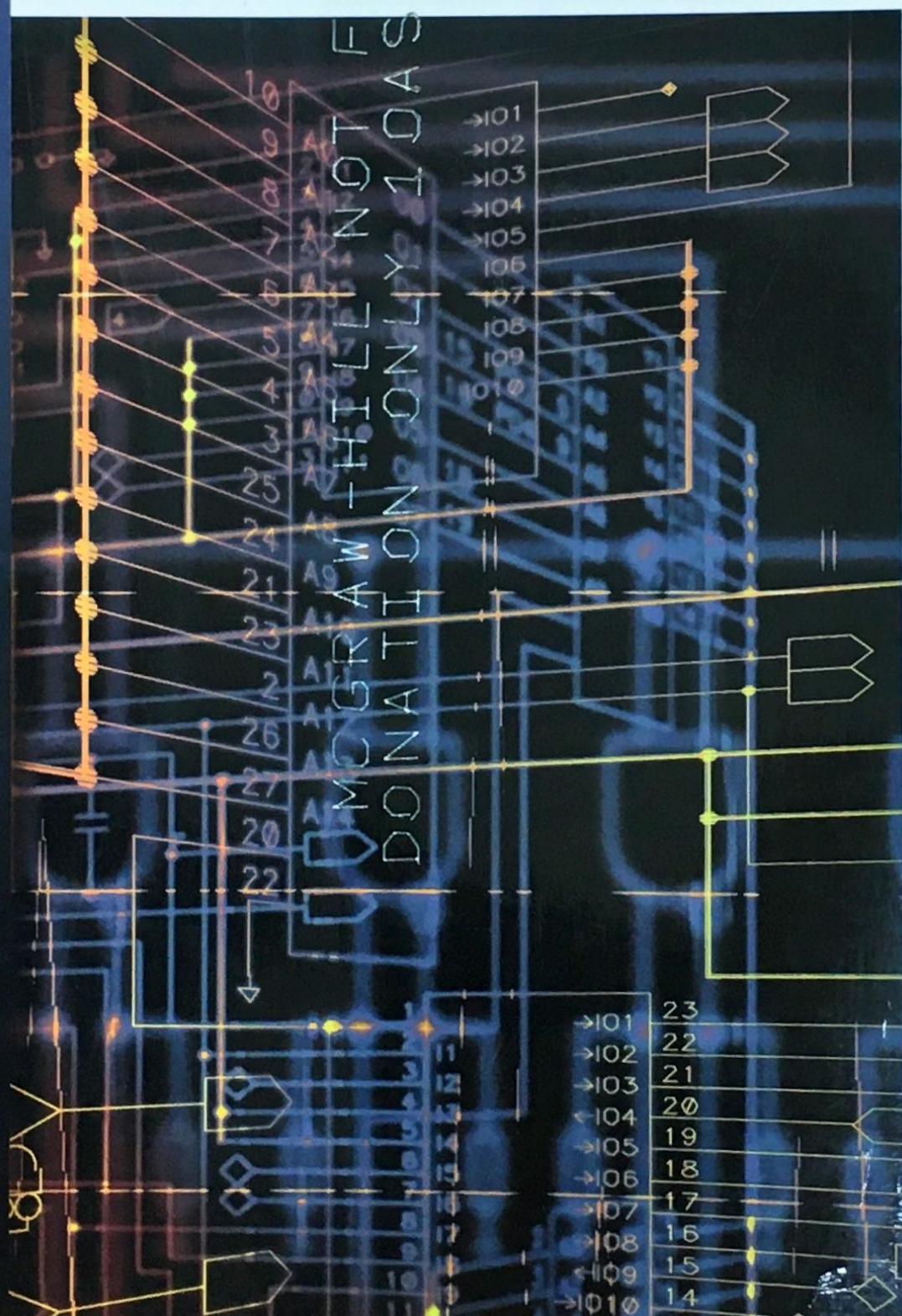


Circuits and Networks: Analysis and Synthesis

A. Sudhakar Shyammohan S. Palli



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As early as 1910, the McGraw-Hill book company was making a difference on college campuses with the publication of its first series, Electrical Engineering Texts, outlined and edited by Professor Harry E. Clifford of Harvard University. McGraw-Hill's Electrical Engineering textbooks have shaped engineering curricula worldwide. I am thrilled that I have been invited to be the Global Series Editor in Electrical Engineering, helping to shape how the next generation of electrical engineering students around the globe will learn.

As advances in networking and communications bring the global academic community even closer together, it is essential that textbooks recognize and respond to this shift. It is in this spirit that we will publish textbooks in the McGraw-Hill Core Concepts in Electrical Engineering Series. The series will offer textbooks for the global electrical engineering curriculum that are reasonably priced, innovative, dynamic, and will cover fundamental subject areas studied by Electrical and Computer Engineering students. Written with a global perspective and presenting the latest in technological advances, these books will give students of all backgrounds a solid foundation in key engineering subjects.

Circuits and Networks by A. Sudhakar of Nagarjuna University and S.S. Paul of Andhra University, India, is a textbook for an introductory circuits course at the intermediate undergraduate level. The book consists of fundamental analytical methods for describing circuit performance. Methods of circuit analysis include network theorems, graph theory, steady-state analysis and resonance phenomena. Filters and one-port and two-port networks are described; in addition, an introduction to PSpice is provided. The provision of 471 solved problems helps students to test their knowledge. A separate chapter on Laplace Transforms is also provided.

This book has been reviewed and assessed for use in engineering classrooms at all levels. Like *Circuits and Networks*, each book in the Core Concepts series presents a comprehensive, straightforward, and accurate treatment of an important subject in Electrical & Computer Engineering. With their clear approach, contemporary technology, and international perspective, Core Concepts books are an unmistakable choice for professors wanting understandable, concise engineering textbooks that adhere to the standards of The McGraw-Hill Companies.

—Richard C. Dorf,

University of California, Davis

Series Editor, The Core Concepts Series in Electrical and Computer Engineering

Circuits and Networks

Analysis and Synthesis

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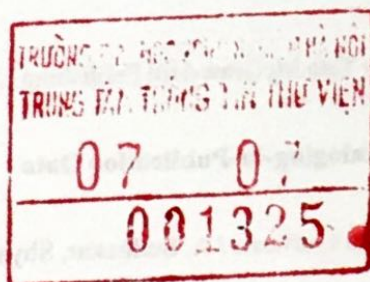
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CIRCUITS AND NETWORKS: ANALYSIS AND SYNTHESIS

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