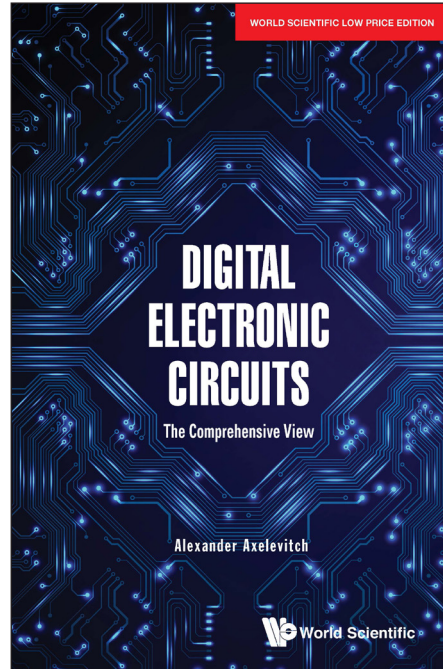


# DIGITAL ELECTRONIC CIRCUITS

## The Comprehensive View

By  
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Technology, Israel)



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### ABOUT THE BOOK

This book deals with key aspects of design of digital electronic circuits for different families of elementary electronic devices. Implementation of both simple and complex logic circuits are considered in detail, with special attention paid to the design of digital systems based on complementary metal-oxide-semiconductor (CMOS) and Pass-Transistor Logic (PTL) technologies acceptable for use in planar microelectronics technology. It is written for students in electronics and microelectronics, with exercises and solutions provided.

### READERSHIP

This book is mainly intended for students as it explores examination problems on digital circuits. Professional engineers engaged in the design and realization of microelectronic circuits and devices may also be interested in this text.

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## CONTENTS

- Basic Definitions and Logic Families
- Logic Families Based on the Bipolar Devices
- Logic Families Based on the Unipolar Devices
- Analysis and Synthesis of Digital Logic Circuits
- Semiconductor Memory Architecture
- Solutions

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