Preface

The journey of digital systems started with the development of the mechanical adder in 1642 by Pascal and a lot of developments took place over the years till 1854 when Boole developed a special algebra for modern digital electronics and computer circuits. After that, the introduction of digital adder, subtracter, multiplexer, encoder, decoder, logic gates and their use in register as memory and counter have enriched the subject. All these topics are now divided into two broad categories as Combinational and Sequential circuits. From the above consideration, the present book is written to serve the need of a fundamental text, covering the complete range of the foundation materials in switching theory and digital design. The solved and unsolved problems of different chapters will make the subject easy to understand.

Though the book is primarily for the first level course for the students of B.E./ B.Tech courses in Electronics & Communication, Computer Science, Information Technology and Electrical Engineering of every Engineering Colleges and at the same time, the UG/PG general science students of any University will also be benefited after going through the book for their course on Electronic Science, Computer Science and Physics. This book is also helpful for the student appearing in different examinations like GATE, ISRO, DRDO etc.

Last but not least, there may be some printing errors which have escaped despite our alertness. Any such errors or shortcomings along with suggestions will be highly appreciated for further improvement of the book in the next edition.

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