

Fifth Edition

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Edition**

Electronics Lab Manual

Volume 1



K.A. Navas

ELECTRONICS LAB MANUAL

VOLUME 1

Fifth Edition

K.A. NAVAS

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Kasaragod, Kerala

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Delhi-110092

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ELECTRONICS LAB MANUAL, Volume 1, Fifth Edition

K.A. Navas

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To
My parents
wife
Dr. Neelofar I.K.
and children
Rajath and Sayuj

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Preface

A large number of good quality academic books are available in the market in the field of analysis of electronic circuits. But there remains a substantial void in its complementary field; design of electronic circuits. This book is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments.

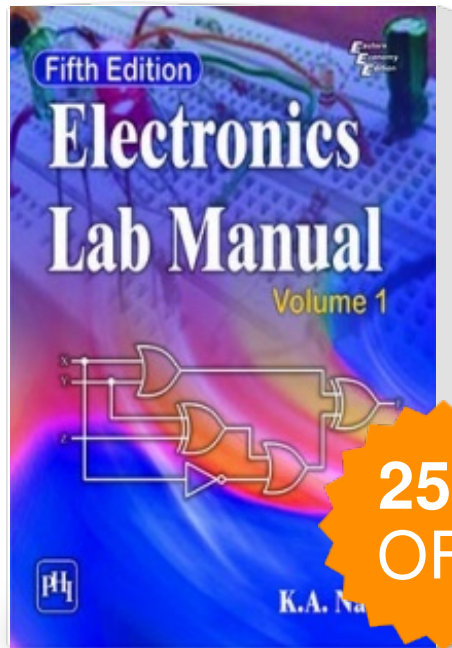
This book is the first of the two volumes of electronics lab manuals. It contains five chapters. First chapter introduces the electronic components and equipment, and some experiments for electronics workshop. Three chapters cover experiments for basic electronics lab, electronic circuits lab and digital electronics lab. One chapter is dedicated to the simulation of analog and digital experiments using PSpice. Each experiment is structured in a format of aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions and troubleshooting techniques.

Detailed descriptions of the experiments are avoided, since it is beyond the scope of the book. Therefore, the students are advised to delve in other books for profound understating of theoretical aspects.

It is expected that this book will be useful for undergraduate students of electrical science branches of engineering and applied science. I welcome suggestions for the improvement in the book.

K.A. Navas

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