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This book is an up-to-date text on electronic circuit design. The subject is dealt with from an experimental point of view, but this has not restricted the author to well-known or simple circuits. Indeed, some very recent and quite advanced circuit ideas are put forward for experimental work. Each chapter takes up a particular type of circuit, and then leads the reader on to gain an understanding of how these circuits work by proposing experimental circuits for the reader to build and make measurements on. This is the first book to take such an experimental approach to this level.

The book will be useful to final year undergraduates and postgraduates in electronics, practising engineers, and workers in all fields where electronic instrumentation is used and there is a need to understand electronics and the interface between the instrument and the user's own experimental system.

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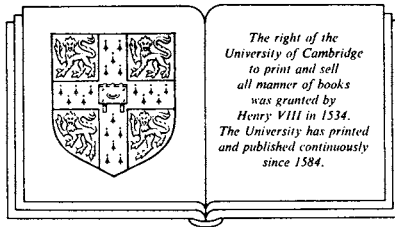
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Preface

This book has been written for people who like to build electronic circuits and then experiment and make measurements on them. Such an experimental approach to understanding electronics does not mean that the work need be restricted to well-known or simple circuits. Some very recent circuit ideas are put forward as experimental exercises here, and the book should prove interesting both to students and to people, of all ages, who are already working in industry and research, and who would like to have experience of some recent developments in the field of electronic instrumentation.

In writing the book I have been greatly helped by conversation and correspondence with many people. In particular, Dr Asad Abidi, now at UCLA, Dr David Haigh, at UCL, London, and Dr Bhikhu Unvala, at ICSTM, London. Dr Unvala has also been most helpful in providing some of the experimental facilities. Finally, sincere thanks to Mr Ali Mehmed, whose careful reading of the typescript resulted in a number of changes for the better, along with many corrections.

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T. H. O'Dell