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For courses in
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conventional flow

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clear and

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engineers This book has been written for students on electrical engineering courses who don ' t necessarily possess prior knowledge of electrical circuits. Based on the author ' s own teaching experience, it covers the

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analysis of simple electrical circuits consisting of a few essential components using fundamental and well-known methods and techniques.

Although the above content has been included in other circuit analysis

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books, this one aims at teaching young engineers not only from electrical and electronics engineering, but also from other areas, such as mechanical engineering, aerospace engineering, mining engineering, and

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that the traditional texts in this area can be overwhelming for beginners, the author approaches his subject by providing numerous examples for the student to solve and practice before learning more complicated

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components and circuits. These exercises and problems will provide instructors with in-class activities and tutorials, thus establishing this book as the perfect complement to the more traditional texts. All examples

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and problems contain detailed analysis of various circuits, and are solved using a ' recipe ' approach, providing a code that motivates students to decode and apply to real-life engineering scenarios Covers

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and steady states
Aims to stimulate
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***Problems with
provided
answers have all
been updated.***

***Design
Applications are
included at the
end of chapters.
A specific
electronic design
related to that
chapter is
presented. The
various stages in***

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the design of an electronic thermometer are explained throughout the text. Specific Design Problems and Examples are highlighted throughout as well.

The primary objectives of this revision of the

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laboratory manual include insuring that the procedures are clear, that the results clearly support the theory, and that the laboratory experience results in a level of confidence in the use of the testing

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equipment commonly found in the industrial environment. For those curriculums devoted to a dc analysis one semester and an ac analysis the following semester there are more experiments for

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***each subject
than can be
covered in a
single semester.
The result is the
opportunity to
pick and choose
those
experiments that
are more closely
related to the
curriculum of the
college or
university. All of***

the experiments have been run and tested during the 13 editions of the text with changes made as needed. The result is a set of laboratory experiments that should have each step clearly defined and

results that closely match the theoretical solutions. Two experiments were added to the ac section to provide the opportunity to make measurements that were not included in the original set.

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**Developed by
Professor David
Krispinsky of
Rochester
Institute of
Technology they
match the same
format of the
current
laboratory
experiments and
cover the
material clearly
and concisely. All**

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the experiments are designed to be completed in a two or three hour laboratory session. In most cases, the write-up is work to be completed between laboratory sessions. Most institutions begin the

laboratory session with a brief introduction to the theory to be substantiated and the use of any new equipment to be used in the session.

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level. In this second edition some chapters have been expanded and whole new chapters added. The book is aimed at radio amateurs in any country as well as electrical and radio technicians. The

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