



Practical Electrical Engineering

By Sergey N. Makarov, Reinhold Ludwig, Stephen J. Bitar

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This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering.

The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

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Editorial Review

From the Back Cover

This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical and computer engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as robotics, mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

- Provides a self-contained, fundamental textbook on electric circuits and basic electronics, designed to be accessible to students from a variety of engineering disciplines;
- Helps students to bridge their academic and industrial careers, including for example, answers to typical interview questions for an entry-level position in electrical engineering and circuit design;

Includes over 1,500 figures, about 1,200 homework problems, and comprehensive summaries at the end of every chapter.

About the Author

Sergey N. Makarov earned his B.S./M.S./Ph.D./Dr. Sci. degrees at the St. Petersburg (Leningrad) State University, Russian Federation, Faculty of Mathematics and Mechanics. Dr. Makarov joined the Faculty of State St. Petersburg University where he became a full professor (youngest full professor of the faculty) in 1996. In 2000 he joined the Faculty of Department of Electrical and Computer Engineering at Worcester Polytechnic Institute (WPI), MA where he became a full professor and director of the Center for Electromagnetic Modeling and Design in 2008. His current research interests include applied computational electromagnetics and human body interaction with EM fields.

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