Electrical Machines with MATLAB®, Second Edition
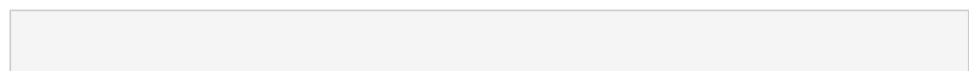
By Turan Gonen

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Electrical Machines with MATLAB® encapsulates the invaluable insight and experience that eminent instructor Turan Gönen has acquired in almost 40 years of teaching. With simple, versatile content that separates it from other texts on electrical machines, this book is an ideal self-study tool for advanced students in electrical and other areas of engineering. In response to the often inadequate, rushed coverage of fundamentals in most basic circuit analysis books and courses, this resource is intelligently designed, easy to read, and packed with in-depth information on crucial concepts.

Topics include three-phase circuits, power measurement in AC circuits, magnetic circuits, transformers, and induction, synchronous, and direct-current machines. The book starts by reviewing more basic concepts, with numerous examples to clarify their application. It then explores new "buzzword" topics and developments in the area of electrical machine applications and electric power systems, including:

- Renewable energy
- Wind energy and related conversion
- Solar energy
- Energy storage
- The smart grid

Using International Systems (IS) units throughout, this cross-disciplinary design guide delves into commonly used vocabulary and symbols associated with electrical machinery. Several new appendices contain tools such as an extensive glossary to explain important terms. Outlining a wide range of information?and the many different ways to apply it?this book is an invaluable, multifunctional resource for students and professors, as well as practicing professionals looking to refresh and update their knowledge.

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Editorial Review

About the Author

Turan Gönen is professor of electrical engineering and director of the Electrical Power Educational Institute at California State University, Sacramento (CSUS). Previously, he was professor of electrical engineering and director of the Energy Systems and Resources Program at the University of Missouri–Columbia. Professor Gönen also held teaching positions at the University of Missouri– Rolla, the University of Oklahoma, Iowa State University, Florida International University, and Ankara Technical College. He has taught electrical machines and electric power engineering for more than 38 years. Professor Gönen also has a strong background in the power industry. He worked as a design engineer in numerous companies for eight years, both in the United States and abroad. He has served as a consultant for the United Nations Industrial Development Organization (UNIDO), Aramco, Black & Veatch Consultant Engineers, and the public utility industry.

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