

Electrical Systems: An Introduction for Non-Electrical Students

By Suleiman M. Sharkh

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One of the first books dedicated as a concise introduction to the interdisciplinary topic for non-electrical students and engineers

The fundamentals of electrical systems are presented to the reader in a clear and concise manner. Interdisciplinary case studies illustrate the relevance of the topic in different fields. The book also includes problems and answers. The book is an introduction to the fundamentals of electrical systems for non-electrical engineering students at bachelor level.

- One of the first textbooks on the basics of electrical systems for students of other engineering disciplines studying a short electrical engineering module
- Clear didactical approach provides a broad yet concise introduction to the fundamentals of electrical systems
- Exciting interdisciplinary case studies show the relevance of the topics to non-specialists by cross-linking it to other fields
- Includes problems, solutions and power point slides on a complementary website

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Editorial Review

About the Author
Dr Sharke is a senior lecturer in the Electromechanical Research Group at the University of Southampton in UK. He has 18 years research and teaching experience in electrical and electromagnetic systems including electric arc phenomena in switching devices, applied electrostatics, electrical machines, control systems and characterisation and management of advanced batteries. He is also the managing director of HiT Systems Ltd, which specialises in electromagnetic system analysis and design, control systems and web applications. In 2002 he was given the DTI SPARKS award for his work on electric machines for marine thrusters and tidal turbine generators. He was also the winner of The Engineer Energy Innovation and Technology Award that was presented at the Royal Society London in 2008. His research has led to the development of a number of commercial products. Dr Sharkh is a chartered engineer and member of the IET. He is also a member of the Technical Advisory Panel of the IET Power Generation, Conversion and Utilisation Panel. He was also a past committee member of the UK Magnetics Society. Dr Sharkh has taught many courses at undergraduate and postgraduate levels. Currently he teaches Electrical Systems, Advanced Electrical Systems Automotive Propulsion.

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