



Electric Power Distribution Engineering, Third Edition

By Turan Gonen

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A quick scan of any bookstore, library, or online bookseller will produce a multitude of books covering power systems. However, few, if any, are totally devoted to power distribution engineering, and none of them are true textbooks. Filling this vacuum in the power system engineering literature, *Electric Power Distribution System Engineering* broke new ground.

Written in the classic, self-learning style of the original, **Electric Power Distribution Engineering, Third Edition** is updated and expanded with:

- Over 180 detailed numerical examples
- More than 170 end-of-chapter problems
- New MATLAB® applications

The **Third Edition** also features new chapters on:

- Distributed generation
- Renewable energy (e.g., wind and solar energies)
- Modern energy storage systems
- Smart grids and their applications

Designed specifically for junior- or senior-level electrical engineering courses, the book covers all aspects of distribution engineering from basic system planning and concepts through distribution system protection and reliability. Drawing on decades of experience to provide a text that is as attractive to students as it is useful to professors and practicing engineers, the author demonstrates how to design, analyze, and perform modern distribution system

engineering. He takes special care to cover industry terms and symbols, providing a glossary and clearly defining each term when it is introduced. The discussion of distribution planning and design considerations goes beyond the usual analytical and qualitative analysis to emphasize the economical explication and overall impact of the distribution design considerations discussed.

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Electric Power Distribution Engineering, Third Edition By Turan Gonen Bibliography

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Editorial Review

Review

Praise for the Third Edition:

"This classic book is now updated to include new chapters on distributed generation, renewable energy (wind and solar), modern energy-storage systems, and smart grids. ... Besides the wealth of theoretical information and design details, the book is loaded with practical information useful for the working distribution engineer (e.g., ground grid resistance, power meter connections, wire ampacity, and much more). The appendix is an excellent resource for learning many of the essential tools used by distribution engineers (i.e., per unit calculations, impedance tables, symbols used in schematics, and definitions). For academic use, questions at the end of each chapter provide the teacher with easy homework assignments. Whether you are a professor teaching power engineering looking for a course textbook or a working power engineer, this textbook provides a wealth of knowledge and information useful for the power distribution engineer."

?John J. Shea, Eaton Corporation, Moon Township, Pennsylvania, USA, from *IEEE Electrical Insulation Magazine*, May/June 2015

"This book gives a wide overview on topics of electric power distribution engineering, delivers insight in special subjects and treats both conventional and actual issues. People interested in electric power distribution will find Turan Gonen's textbook very helpful to get technical information regarding all interesting topics in this field."

?Nejila Parspour, Professor für Electrical Energy Conversion, University of Stuttgart, Germany

"This text provides a very accessible overview of topics in distribution engineering, from fundamental design principles to the transition to a smarter, more active distribution grid. ... The material is particularly accessible for those students transferring to power engineering from other engineering disciplines."

?Dr. James Pilgrim, University of Southampton, UK

Praise for the Previous Edition:

"An outstanding technical reference for power engineering students and working professionals having broad coverage with excellent insight into the practical aspects of power system distribution engineering... this is suitable for a senior and graduate textbook in power engineering. Well worth the investment."

?*IEEE Electrical Insulation Magazine*

About the Author

Turan Gönen received a BS and MS from Istanbul Technical College, MS and two Ph.Ds from Iowa State University, and MBA from University of Oklahoma. He has held positions at University of Missouri–Columbia, University of Missouri–Rolla, University of Oklahoma, Iowa State University, Florida International University, and Ankara Technical College; served as a design engineer and consultant in US and international power industries; and written over 100 technical papers and five books. An IEEE fellow and IIE senior member, he is currently professor of electrical engineering and director of the Electrical Power Educational Institute at California State University, Sacramento.

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