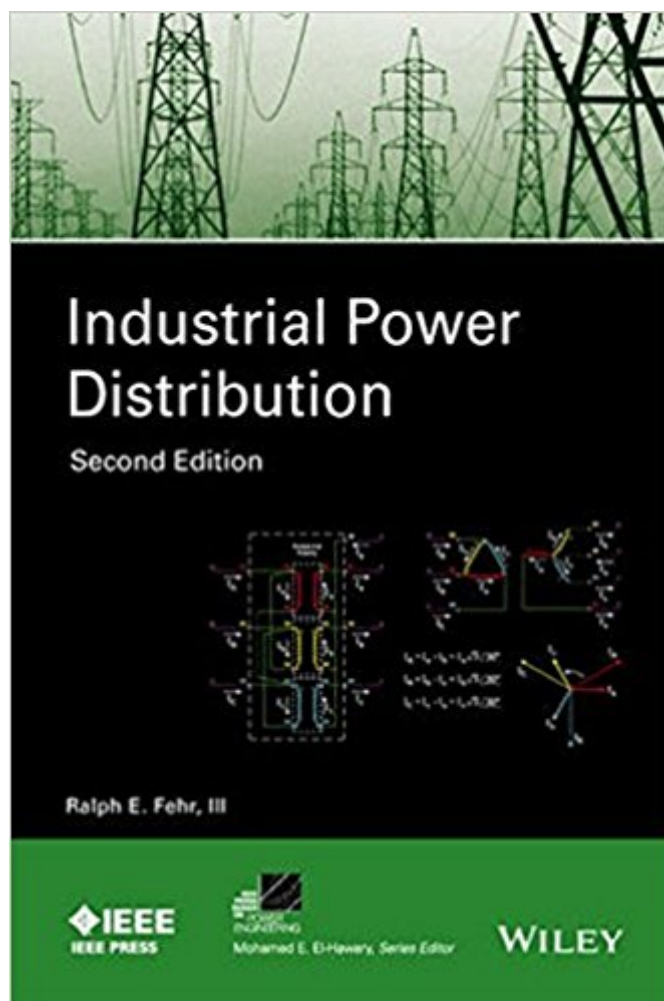


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Industrial Power Distribution (IEEE Press Series On Power Engineering)



Synopsis

This new edition of Industrial Power Distribution addresses key areas of electric power distribution from an end-user perspective, which will serve industry professionals and students develop the necessary skills for the power engineering field. Expanded treatment of one-line diagrams, the per-unit system, complex power, transformer connections, and motor applications New topics in this edition include lighting systems and arc flash hazard Concept of AC Power is developed step by step from the basic definition of power Fourier analysis is described in a graphical sense End-of-chapter exercises

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Book Information

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In this fully updated version of Industrial Power Distribution, the author addresses key areas of electric power distribution from an end-user perspective for both electrical engineers, as well as students who are training for a career in the electrical power engineering field. Industrial Power Distribution, Second Edition, begins by describing how industrial facilities are supplied from utility sources, which is supported with background information on the components of AC power, voltage drop calculations, and the sizing of conductors and transformers. Important concepts and discussions are featured throughout the book including those for sequence networks, ladder logic, motor application, fault calculations, and transformer connections. The book concludes with an

introduction to power quality, how it affects industrial power systems, and an expansion of the concept of power factor, including a distortion term made necessary by the existence of harmonics. This edition also includes: New topics such as lighting systems and arc flash hazard Expanded treatment of one-line diagrams, the per-unit system, complex power, transformer connections, and motor applications End-of-chapter exercises The author's practical approach toward electric power distribution will help engineers and students develop the skills most important in the power engineering field. Ralph E. Fehr, III is an Instructor in the College of Engineering at the University of South Florida, Tampa USA. Dr. Fehr received the IEEE Region 3 Joseph M. Biedenbach Outstanding Engineering Educator award in 2011. He is an active IEEE Power and Energy Society Executive Committee Member and past IEEE PES Education Committee Panelist for educational reform. Dr. Fehr's current research interests are in power system planning methods and reliability enhancement techniques, infrastructure design improvements, high-power semiconductor applications at medium voltages, and engineering education reform. Â

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