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Sommario/riassunto

Written by internationally renowned pioneers in the field, this book is a systematic and comprehensive introduction to electromagnetic transients in cable systems. Cable structures, methods to derive the parameters of the equivalent circuits for cables, analytical methods for calculating electromagnetic transients in power systems, and the characteristics of electromagnetic transients in cable systems, are all covered in detail and are backed up by decades of research. Other important topics include EMTP simulation models of cables, validation of modeling techniques and emerging issues associated with cable system transients in distributed resources such as wind farms and solar power plants. * Presents a systematic and comprehensive introduction to electromagnetic transients in cable systems * Written by internationally recognized experts in the field * Thorough coverage of the state of the art, presented in a well-organized, logical style, taking

readers through fundamentals all the way to practical applications * A companion website includes PowerPoints related to cable transients that are beneficial to lecturers and readers Cable System Transients: Theory, Modeling and Simulation will provide readers wishing to refresh their knowledge in the subject area with an in-depth understanding of power cable modeling. This book is intended for advanced students, researchers, and engineers in the fields of electrical engineering, high-voltage engineering and power systems.