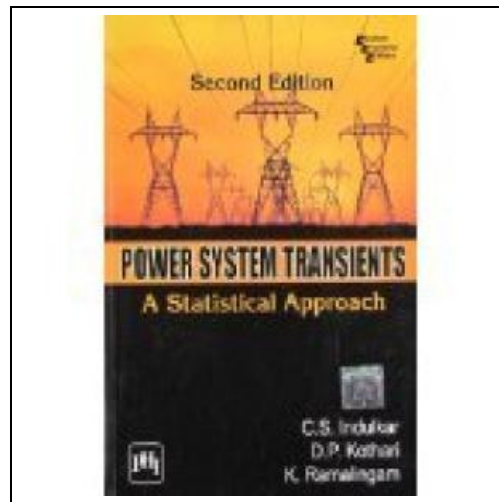


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PHI Learning, 2010. Softcover. Condition: New. 2nd edition. This book, now in its second edition, presents a comprehensive exposition of the basic principles involved in the analysis and computation of power system transients using a statistical approach. The book deals with probability distribution of switching overvoltages in overhead lines, underground cables, and machine windings. The accuracy of statistical methods for power system transients, including the suitability of Gaussian distribution for these methods, is discussed. In the case of overhead lines, a simplified statistical method for estimating the phase-to-phase risk of insulation failure is explained. The new edition covers the latest research developments in this field. Analysis and modelling of noise as well as prediction of voltage sags in power lines, statistical evaluation of lightning overvoltages, application of ANN algorithm, and use of correlation algorithm for identification of inrush and fault currents in transformers are the major topics presented. Waveshape-based analysis of switching overvoltages and design procedure for insulation coordination are also dealt with in detail. Designed primarily as a text for courses on power systems offered as part of undergraduate and postgraduate programmes in electrical engineering, the book is also highly useful for practising engineers, researchers and academics. Contents Preface ? Preface to First Edition 1. Introduction 2. Probability Distribution of Switching Surge Overvoltages 3. Application of Insulators to Withstand Switching Surges 4. Probability of Failure of an EHV Transmission Line 5. Accuracy of Statistical Methods in Insulation Evaluation 6. Statistical Estimation of Phase-to-Phase Risk of Failure 7. Suitability of Gaussian Stress Distribution for Statistical Line Insulation Design 8. Statistical Distribution of Impulse Breakdown in Oil-Filled Cable 9. Method of Grading EHV Cables Based on Statistical Breakdown Stress 10. Probability of Failure of Motor Windings 11. Frequency of Occurrence of Lightning Flashes and Shielding of Transmission Lines 12. Characteristics of...

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