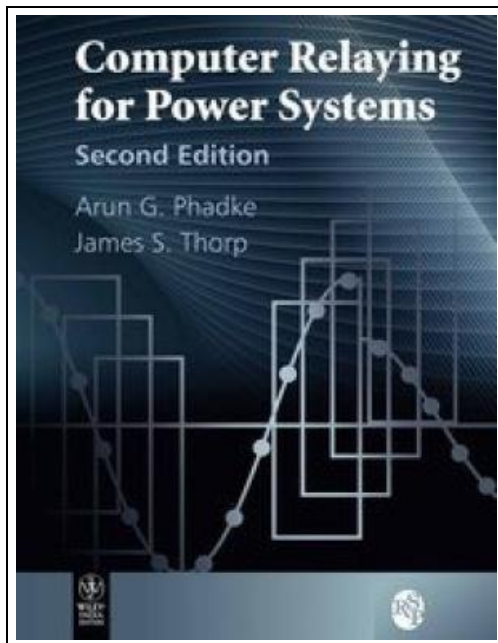


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CBS Publishers & Distributors Pvt. Ltd., 2012. Softcover. Book Condition: New. 2nd edition. Table of Contents 1 Introduction to computer relaying. 1.1 Development of computer relaying. 1.2 Historical background. 1.3 Expected benefits of computer relaying. 1.4 Computer relay architecture. 1.5 Analog to digital converters. 1.6 Anti-aliasing filters. 1.7 Substation computer hierarchy. 1.8 Summary. 2 Relaying practices. 2.1 Introduction to protection systems. 2.2 Functions of a protection system. 2.3 Protection of transmission lines. 2.4 Transformer, reactor and generator protection. 2.5 Bus protection. 2.6 Performance of current and voltage transformers. 2.7 Summary. 3 Mathematical basis for protective relaying algorithms. 3.1 Introduction. 3.2 Fourier series. 3.3 Other orthogonal expansions. 3.4 Fourier transforms. 3.5 Use of fourier transforms. 3.6 Discrete fourier transform. 3.7 Introduction to probability and random process. 3.8 Random processes. 3.9 Kalman filtering. 3.10 Summary. 4 Digital filters. 4.1 Introduction. 4.2 Discrete time systems. 4.3 Discrete time systems. 4.4 Z Transforms. 4.5 Digital filters. 4.6 Windows and windowing. 4.7 Linear phase. 4.8 Approximation -- filter synthesis. 4.9 Wavelets. 4.10 Elements of artificial intelligence. 4.11 Conclusion. 5 Transmission line relaying. 5.1 Introduction. 5.2 Sources of error. 5.3 Relaying as parameter estimation. 5.4 Beyond parameter estimation. 5.5 Symmetrical component distance relay. 5.6 Newer analytic techniques. 5.7 Protection of series compensated lines. 5.8 Summary. 6 Protection of transformers, machines and buses. 6.1 Introduction. 6.2 Power transformer algorithms. 6.3 Generator protection. 6.4 Motor protection. 6.5 Digital bus protection. 6.6 Summary. 7 Hardware organization in integrated systems. 7.1 The nature of hardware issues. 7.2 Computers for relaying. 7.3 The substation environment. 7.4 Industry environmental standards. 7.5 Countermeasures against EMI. 7.6 Supplementary equipment. 7.7 Redundancy and backup. 7.8 Servicing, training and maintenance. 7.9 Summary. 8 System relaying and control. 8.1 Introduction. 8.2 Measurement of frequency and phase. 8.3 Sampling clock synchronization. 8.4 Application of phasor measurements to state...



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