Contents

| | Preface | vii |
|-----|--|-----|
| | Introduction | xi |
| 1. | Short-circuit-current Calculating Procedures by Donald Beeman, Alan Graeme Darling, and R. H. Kaufmann | 1 |
| 2. | Symmetrical Components as Applied to Short-circuit-current Calculation on Three-phase Systems by R. H. Kaufmann | 114 |
| 3. | Selection of A-C Short-circuit Protective Devices and Circuit Equipment by Donald Beeman and R. H. Kaufmann | 144 |
| 4. | Voltage—Standard Ratings, Allowable Variations, Reduction of Variations, Calculation of Drops by W. R. Crites and Maynord N. Halberg | 191 |
| 5. | System Overvoltages—Causes and Protective Measures by R. H. Kaufmann and Maynord N. Halberg | 278 |
| 6. | System Grounding by L. J. Carpenter and L. G. Levoy, Jr. | 337 |
| 7. | Equipment Grounding by L. J. Carpenter, Shelby C. Cooke, Jr., R. H. Kaufmann, and David Stoetzel | 404 |
| 8. | Power-factor Improvement by W. C. Bloomquist | 439 |
| 9. | System Overcurrent Protection by Francis P. Brightman | 504 |
| 10. | Selection of System Voltages by Donald Beeman | 574 |
| 11. | Load-center Power Systems and Circuit Arrangements by Donald Beeman | 622 |

| x | CONTENTS | |
|-----|--|-----|
| 12. | Secondary Distribution Systems by Shelby C. Cooke, Jr. | 684 |
| 13. | Primary Distribution Systems by Norman L. Hadley | 706 |
| 14. | Power Systems for Commercial Buildings by Donald S. Brereton | 731 |
| 15. | Modernization and Expansion of Existing Power Systems by Donald Beeman and L. G. Levoy, Jr. | 757 |
| 16. | Steam and Power Generation by William B. Wilson | 808 |
| 17. | Load- and Cost-estimating Data by Donald S. Brereton | 884 |
| | Appendix compiled by D. B. Armstrong | 925 |
| | Index | 949 |