



# Understanding Symmetrical Components for Power System Modeling (IEEE Press Series on Power Engineering)

By J. C. Das



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### An essential guide to studying symmetrical component theory

- Provides concise treatment of symmetrical components
- Describes major sequence models of power system components
- Discusses Electromagnetic Transient Program (EMTP) models
- Includes worked examples to illustrate the complexity of calculations, followed by matrix methods of solution which have been adopted for calculations on digital computers

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### Editorial Review

From the Back Cover

#### **An essential guide to studying symmetrical component theory**

This book utilizes symmetrical components for analyzing unbalanced three-phase electrical systems, by applying single-phase analysis tools. The author covers two approaches for studying symmetrical components; the physical approach, avoiding many mathematical matrix algebra equations, and a mathematical approach, using matrix theory. Divided into seven sections, topics include: symmetrical components using matrix methods, fundamental concepts of symmetrical components, symmetrical component s –transmission lines and cables, sequence components of rotating equipment and static load, three-phase models of transformers and conductors, unsymmetrical fault calculations, and some limitations of symmetrical components. In addition, this book:

- Provides concise treatment of symmetrical components
- Describes major sequence models of power system components
- Discusses Electromagnetic Transient Program (EMTP) models
- Includes worked examples to illustrate the complexity of calculations, followed by matrix methods of solution which have been adopted for calculations on digital computers

About the Author

**J.C. Das** is President, Power System Studies, Inc. Snellville, Georgia. He is an independent consultant, currently with AMEC Foster Wheeler, Inc., a leading supplier of high-value consultancy, engineering, and project management services to the world's energy, power, and process industries. He is the author of IEEE Press titles *Power System Harmonics and Passive Filter Designs* (2015) and *Arc Flash Hazard Analysis and Mitigation* (2012).

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