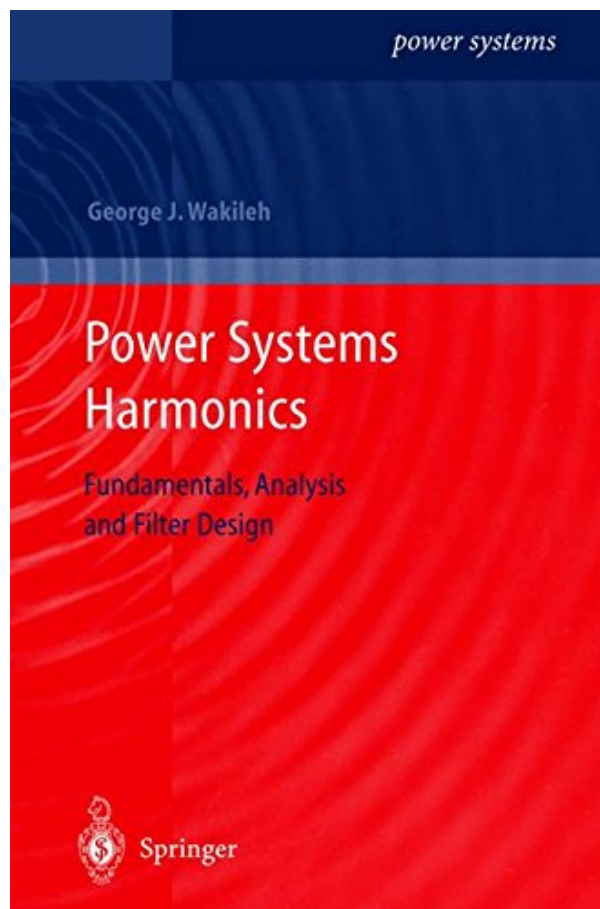


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Fundamentals, Analysis
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From the Back Cover

The electric utility's increasing use of power factor correction capacitor banks and the industry's widespread application of power-electronic converters have set the basis for, recently, paying considerable attention to the issue of power system harmonics. Aiming at a better understanding of power system harmonics, this text presents a discussion of this issue, providing a quantitative analysis when possible. Pertinent equations are developed. 80 practical case studies based on real-life work experience come with the text. These are analysed providing the results and commenting on the output. Furthermore, 80 end-of-chapter problems are provided. A detailed solution manual is available. The book can be used as a textbook for undergraduate and graduate students, in short-courses offered by consultants and institutes, as well as a tutorial, reference, or self-study course for practising engineers in the industry and electric utility.

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Good Book

By Nick

This Book deals with the area of power system harmonics studies. Unlike most other harmonic studies books

the book have a detailed harmonic studies for actual multi-bus power system. This includes filter design and selection, harmonic injection, effect of system equipment rating change on the harmonics, and many other topics. The book also covered power system components modeling for harmonic studies. The main book shortcoming is that it's doesn't cover frequency dependent models, and most of the models used in the studies are pure impedance based models. But in general it's a very good book for introduction to power system harmonics.

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By Carlos A. M. Saraiva

From my point of view of practising engineer Dr. Wakilleh covers the subject of harmonics in very straightforward manner mainly the subject of harmonic filter design. It help me a lot.

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