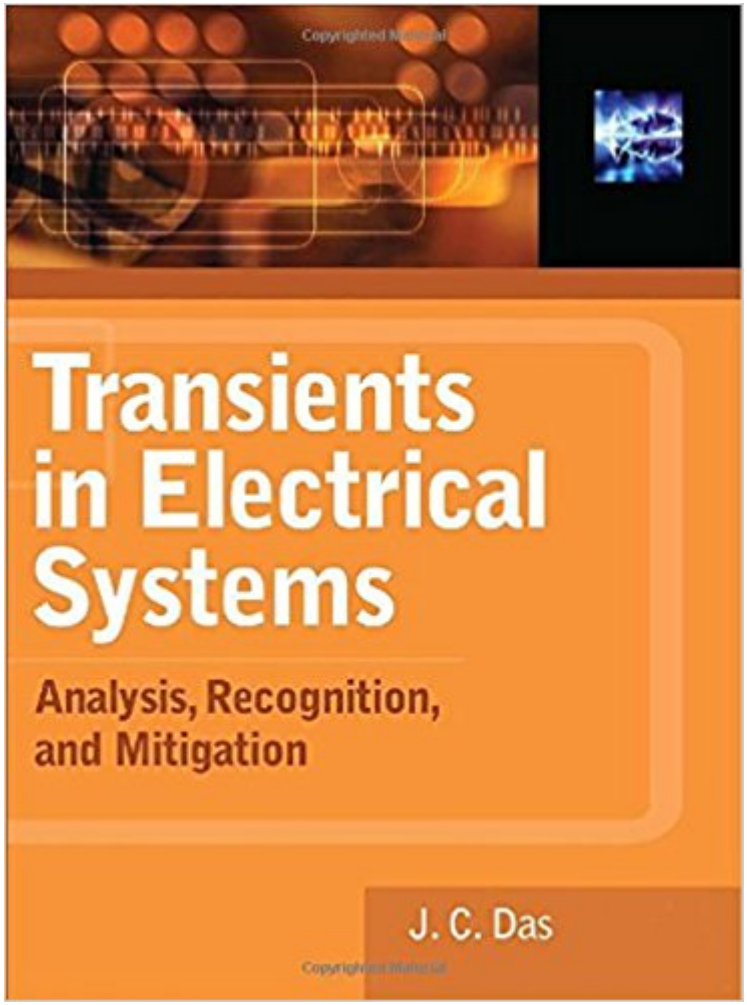
Transients In Electrical Systems: Analysis, Recognition, And Mitigation



Synopsis

Detect and Mitigate Transients in Electrical Systems This practical guide explains how to identify the origin of disturbances in electrical systems and analyze them for effective mitigation and control. Transients in Electrical Systems considers all transient frequencies, ranging from 0.1 Hz to 50 MHz, and discusses transmission line and cable modeling as well as frequency dependent behavior. Results of EMTP simulations, solved examples, and detailed equations are included in this comprehensive resource. Transients in Electrical Systems covers: Transients in lumped circuits Control systems Lightning strokes, shielding, and backflashovers Transients of shunt capacitor banks Switching transients and temporary overvoltages Current interruption in AC circuits Symmetrical and unsymmetrical short-circuit currents Transient behavior of synchronous generators, induction and synchronous motors, and transformers Power electronic equipment Flicker, bus, transfer, and torsional vibrations Insulation coordination Gas insulated substations Transients in low-voltage and grounding systems Surge arresters DC systems, short-circuits, distributions, and HVDC Smart grids and wind power generation

Book Information

Hardcover: 736 pages

Publisher: McGraw-Hill Education; 1 edition (June 24, 2010)

Language: English

ISBN-10: 0071622489

ISBN-13: 978-0071622486

Product Dimensions: 8.8 x 1.2 x 11.2 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars 6 customer reviews

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Customer Reviews

J.C. Das is a senior consultant, electrical power systems, with AMEC, Inc., a leading supplier of high-value consultancy, engineering, and project management services to the world's energy, power, and process industries.

I have not gone through the entire book although it seems to discuss modern switching transient subjects such as GIS Very Fast Transients.I am disappoint at the printing quality as it seems like it was done with an inkjet printer on a normal printing paper (you would not expect that for a $150 product).

I'm starting to use it and have found it is helpful if you want to have brief knowledge about electromagnetic transients and are begining with that topic, however if you need a deep review better buy other book

Good detail instruction for engineers.

I was hesitant to buy this book for $20 when my bookstore sells it for $150 plus. The book took about two weeks to arrive but it was well worth the wait. When I opened the book, the binding crackled like it had never been opened. If you're considering this book, look no further.

The book is unique in that it contains lots of EMTP simulations that provide a real world feel of the transients and help the user understand the nature of the transients. Some sections of the book are very mathematical and should appeal to academia and advanced professionals that deal with electrical transients, but simultaneously the beginners can benefit immensely from the book and have a clear understanding. The very comprehensive nature of the book is another unique feature, for example transients in grounding systems, lightning protection of structures, GIS, DC systems and the like are covered in detail.

low price. send it to my grandson, good product with high quality. very good seller . Love this product! It's a gem! I never realized cutting veggies could be so easy. Disclaimer I've never had nice knives before so I'm not sure what I'm comparing it to. I just know I'm happy!

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