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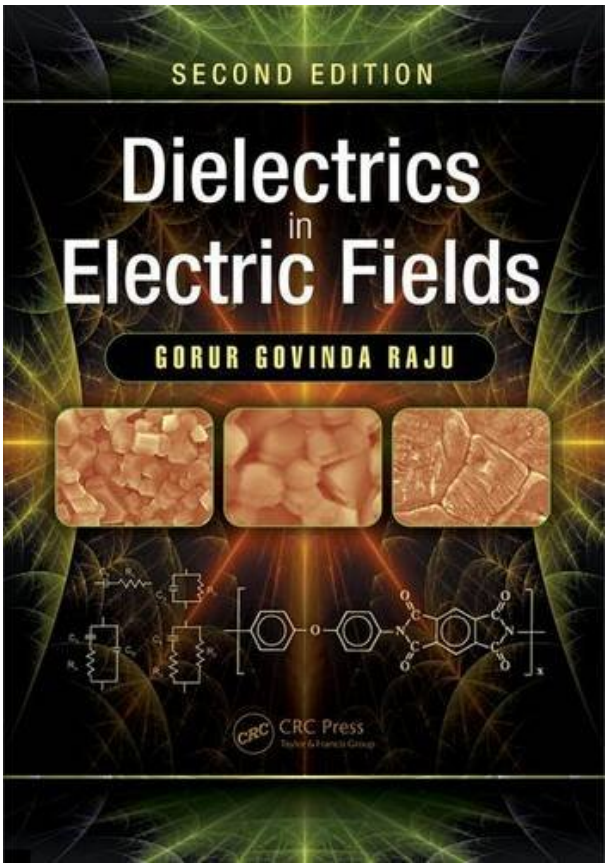

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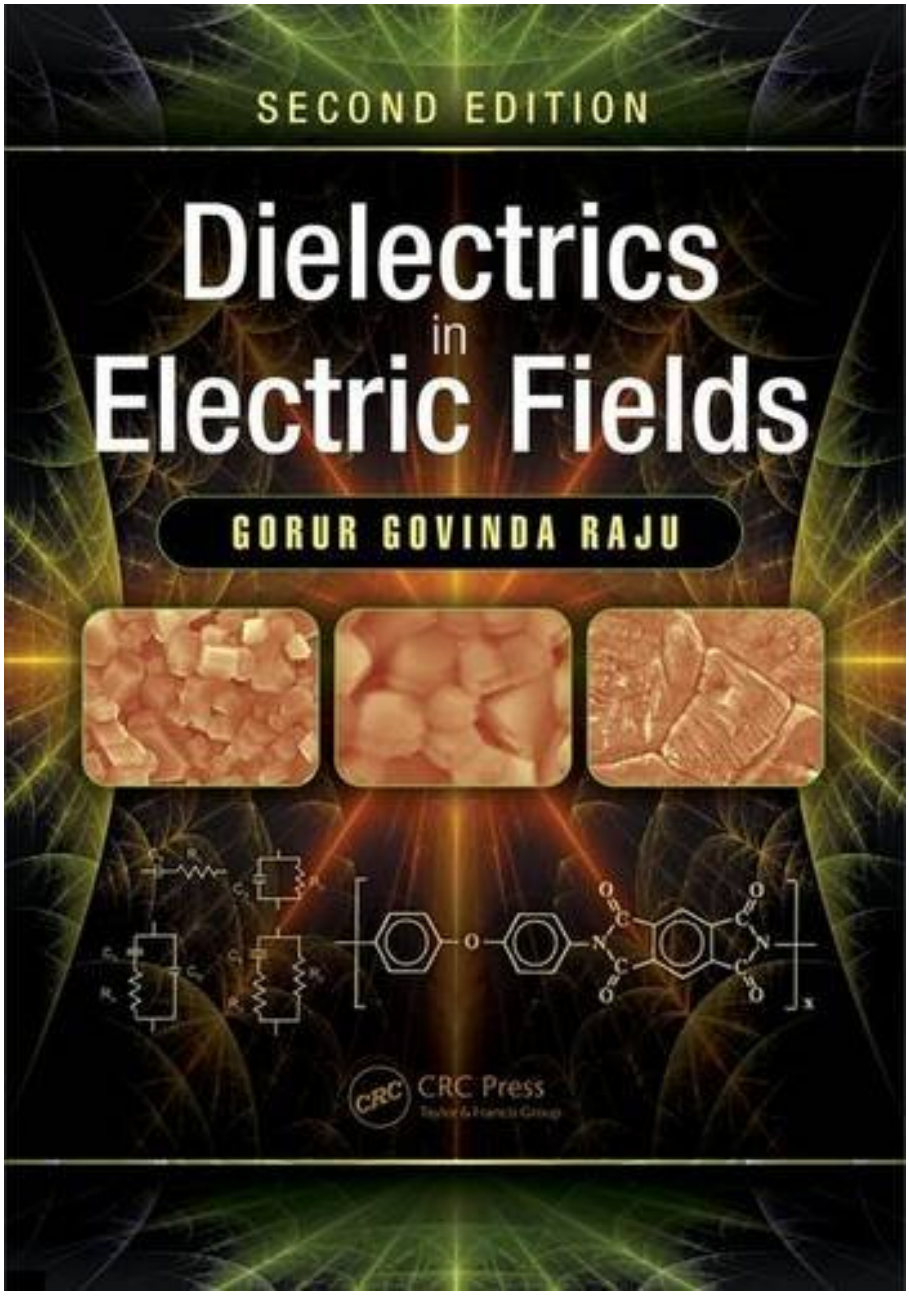

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Review

"An impressive monograph that can also serve as a textbook. For students in physics or materials science, it brings fundamental knowledge required by the curricula. For electrical engineers, it provides useful information on the practical applications of dielectrics. For scientists, it suggests directions for further research. … The approach and the selection of the topics that compose this book are those of a professor who is eager to give to his students or younger coworkers a condensed knowledge of the field, but also to incite them for further reading. … I would like to have this book on my shelf, as it contains the answers to questions that our research group may have on the characteristics of dielectric materials that we use to build our devices or are the object of the electrostatic processes that we study. … Recognized as a top scientist in the field of dielectrics, Professor Raju turns out to be an excellent teacher too. He has the talent to explain why each new element of knowledge he introduces in his book might be of interest not only to the researcher, but also to the electrical engineer."
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"… provides an excellent digest of dielectrics in electric fields. The study of dielectrics is rather multidisciplinary?their response requires a good understanding of physics, the materials are often complicated and require an understanding of chemistry and materials science, and the applications and the development of the testing techniques lie in the hands of engineers. The book crosses these discipline areas with ease, taking the reader from first principles to the present in a coherent and comprehensive way. The coverage is wide without being at the expense of the necessary detail and clarity. I would certainly recommend this book both for graduate classes and, indeed, for researchers at all levels in this field."
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Dielectrics In Electric Fields, Second Edition By Gorur Govinda Raju. In undertaking this life, numerous individuals always attempt to do and get the very best. New understanding, encounter, lesson, and also every little thing that can improve the life will certainly be done. However, many individuals sometimes feel puzzled to obtain those things. Feeling the minimal of encounter and also sources to be much better is one of the does not have to own. Nonetheless, there is a quite simple point that can be done. This is just what your teacher always manoeuvres you to do this. Yeah, reading is the response. Checking out a book as this Dielectrics In Electric Fields, Second Edition By Gorur Govinda Raju and also various other recommendations could enrich your life high quality. How can it be?

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Dielectrics in Electric Fields explores the influence of electric fields on dielectric?i.e., non-conducting or insulating?materials, examining the distinctive behaviors of these materials through well-established principles of physics and engineering.

Featuring five new chapters, nearly 200 new figures, and more than 800 new citations, this fully updated and significantly expanded Second Edition:

- Analyzes inorganic substances with real-life applications in harsh working conditions such as outdoor, nuclear, and space environments
- Introduces methods for measuring dielectric properties at microwave frequencies, presenting results obtained for specific materials
- Discusses the application of dielectric theory in allied fields such as corrosion studies, civil engineering, and health sciences
- Combines in one chapter coverage of electrical breakdown in gases with breakdown in micrometric gaps
- Offers extensive coverage of electron energy distribution?essential knowledge required for the application of plasma sciences in medical science
- Delivers a detailed review of breakdown in liquids, along with an overview of electron mobility, providing a clear understanding of breakdown phenomena
- Explains breakdown in solid dielectrics such as single crystals, polycrystalline and amorphous states, thin films, and powders compressed to form pellets
- Addresses the latest advances in dielectric theory and research, including cutting-edge nanodielectric materials and their practical applications
- Blends early classical papers that laid the foundation for much of the dielectric theory with more recent work

The author has drawn from more than 55 years of research studies and experience in the areas of high-voltage engineering, power systems, and dielectric materials and systems to supply both aspiring and practicing engineers with a comprehensive, authoritative source for up-to-date information on dielectrics in electric fields.

- Sales Rank: #7828440 in Books
- Published on: 2016-05-13
- Original language: English
- Number of items: 1
- Dimensions: 10.10" h x 1.90" w x 7.00" l, .0 pounds
- Binding: Hardcover
- 796 pages

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