



Silicone Composite Insulators: Materials, Design, Applications (Power Systems)

Konstantin O. Papailiou, Frank Schmuck

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Composite insulators have been in service in electric power networks successfully for more than 40 years, and now up to the highest operating voltages. The present book extensively covers such insulators with a special focus on today's prevalent material, which is silicone rubber. It includes a detailed description of the electrical and mechanical characteristics of composite insulators, their material properties, their design as well as typical applications and service experience. Particular attention is given to the mechanical behavior of long rod and post insulators, insulated cross-arms, interphase spacers and hollow core apparatus insulators. The state of the art on manufacturing procedures and the selection and dimensioning of the necessary power arc and corona fittings is presented as well as evaluation tests of "old" insulators, i.e. insulators after many years in service. The closing chapter deals with an up to date overview of test procedures and IEC standards.

The selection and the contents of the various subjects covered in this book are based on the authors' more than thirty years of experience with a renowned European manufacturer of composite insulators and string hardware. Their long and active participation in the relevant CIGRE and IEC working bodies adding to this experience. This book is therefore addressed to practicing engineers from electric utilities and the industry, as well as to academic professionals.

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This Silicone Composite Insulators: Materials, Design, Applications (Power Systems) book is absolutely not ordinary book, you have after that it the world is in your hands. The benefit you will get by reading this book is information inside this guide incredible fresh, you will get data which is getting deeper a person read a lot of information you will get. This kind of Silicone Composite Insulators: Materials, Design, Applications (Power Systems) without we know teach the one who looking at it become critical in contemplating and analyzing. Don't become worry Silicone Composite Insulators: Materials, Design, Applications (Power Systems) can bring any time you are and not make your carrier space or bookshelves' turn out to be full because you can have it in the lovely laptop even mobile phone. This Silicone Composite Insulators: Materials, Design, Applications (Power Systems) having very good arrangement in word along with layout, so you will not really feel uninterested in reading.

James Vera:

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Michael Lucius:

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