

Non-destructive Diagnostic of High Voltage Electrical Systems

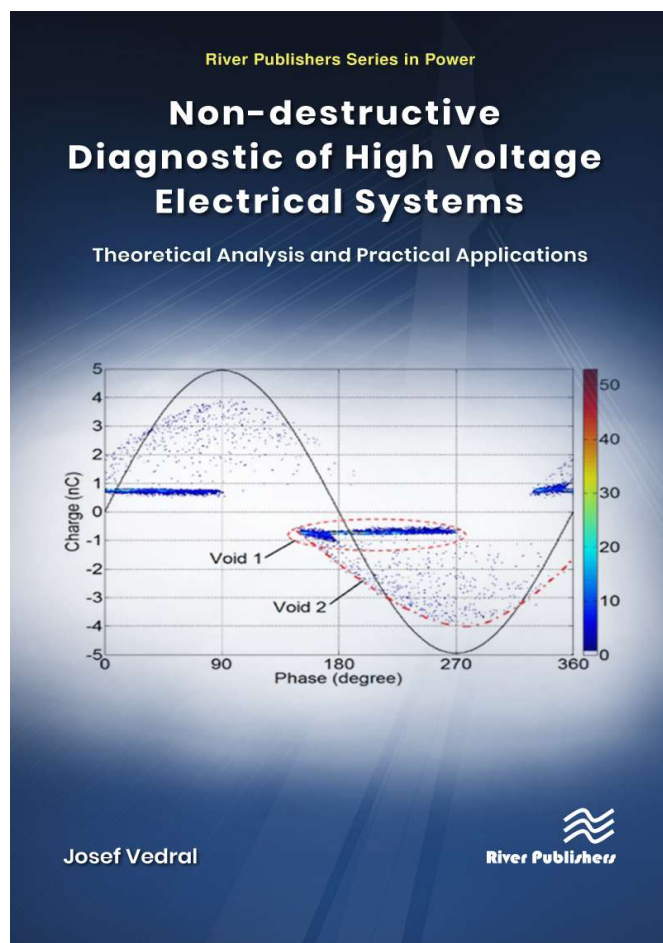
Theoretical Analysis and Practical Applications

Author: Josef Vedral, Czech Technical University in Prague, CZ

This book describes the methods of signal processing used in the non-destructive diagnostics of mechanical and electrical properties of high-voltage electrical machines. Traditional and less traditional methods are given, which allow measuring the mechanical and electrical properties of these machines in order to determine their technical condition, including a description of their measurement methods. Separate chapters are devoted to the causes and methods of measuring and evaluating partial discharges arising in the insulation systems of high-voltage electrical machines. The following chapters provide an overview of the test methods used in the non-disassembly diagnostics of high-voltage transformers, rotary machines, high-voltage cables, insulators, surge arresters and circuit breakers.

The book is intended for students of technical universities and experts in the field of non-destructive diagnostics of high-voltage electrical machines.

The book was reviewed by Ing. Jiří Brázdil, Ph.D. MBA, Head of the HV laboratory of ORGREZ in the Czech Republic.



River Publishers Series in Energy Engineering and Systems

ISBN: 9788770228022

e-ISBN: 9788770228015

Available From: May 2023

Price: € 108.50 \$ 140.00

KEYWORDS:

Non-destructive diagnostic, high voltage electrical machines, insulation systems, voltage test methods, partial discharges measurement, power transformers diagnostic, power cables diagnostic, insulators, surge arresters and circuit breakers diagnostic.

