



Part of the [Studies in Systems, Decision and Control](#) book series (SSDC, volume 281)
Log in to check access

[Buy eBook](#)
EUR 117.69

- Instant download
- Readable on all devices
- Own it forever
- Local sales tax included if applicable

[Learn about institutional subscriptions](#)

- [ChaptersTable of contents \(4 chapters\)](#)
- [AboutAbout this book](#)

Table of contents

Search within book

1. [Front Matter](#)
Pages i-x
[PDF](#)
2. [Principles of Construction of Systems for Diagnosing the Energy Equipment](#)

- Vitalii P. Babak, Serhii V. Babak, Mykhailo V. Myslovych, Artur O. Zaporozhets, Valeriy M. Zvaritch
Pages 1-22
3. [Methods and Models for Information Data Analysis](#)
Vitalii P. Babak, Serhii V. Babak, Mykhailo V. Myslovych, Artur O. Zaporozhets, Valeriy M. Zvaritch
Pages 23-70
 4. [Simulation and Software for Diagnostic Systems](#)
Vitalii P. Babak, Serhii V. Babak, Mykhailo V. Myslovych, Artur O. Zaporozhets, Valeriy M. Zvaritch
Pages 71-90
 5. [Technical Provision of Diagnostic Systems](#)
Vitalii P. Babak, Serhii V. Babak, Mykhailo V. Myslovych, Artur O. Zaporozhets, Valeriy M. Zvaritch
Pages 91-133

About this book

Introduction

This book examines key issues in ensuring the operational reliability of energy facilities. In this regard, it analyzes mathematical models of diagnostic signals that arise during the operation of power equipment; reviews the main findings of research into their characteristics; presents diagnostics methods for selected types of electric power and heat engineering equipment; and covers a range of diagnostic and monitoring systems and devices for power equipment. Given its scope, the book offers a valuable resource for researchers, engineers and specialists, as well as instructors and graduate students at institutions of higher learning.

Keywords

Diagnostic Systems Energy Equipments Power Engineering Energy Power Systems

Authors and affiliations

- Vitalii P. Babak
 - 1
 - Serhii V. Babak
 - 2
 - Mykhailo V. Myslovych
 - 3
 - Artur O. Zaporozhets
 - 4
 - Valeriy M. Zvaritch
 - 5
1. 1.Institute of Engineering Thermophysics of NAS of Ukraine Kyiv Ukraine
 2. 2.Committee on Education, Science and Innovation of Verkhovna Rada of Ukraine Kyiv Ukraine
 3. 3.Department of Theoretical Electrical Engineering Institute of Electrodynamics of NAS of Ukraine Kyiv Ukraine
 4. 4.Department of Monitoring and Optimization of Thermophysical ProcessesInstitute of Engineering Thermophysics of NAS of Ukraine Kyiv Ukraine
 5. 5.Department of Theoretical Electrical Engineering Institute of Electrodynamics of NAS of Ukraine Kyiv Ukraine

Bibliographic information

- **DOI** <https://doi.org/10.1007/978-3-030-44443-3>
- **Copyright Information** The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Switzerland AG 2020
- **Publisher Name** Springer, Cham
- **eBook Packages** [Intelligent Technologies and Robotics](#)

- **Print ISBN** 978-3-030-44442-6
- **Online ISBN** 978-3-030-44443-3
- **Series Print ISSN** 2198-4182
- **Series Online ISSN** 2198-4190
- [Buy this book on publisher's site](#)

[Buy options](#)

Over 10 million scientific documents at your fingertips

Academic Edition [Home](#)

- [Impressum](#)
- [Legal information](#)
- [Privacy statement](#)
- [How we use cookies](#)
- [Cookie settings](#)
- [Accessibility](#)
- [Contact us](#)

[Springer Nature](#)

© 2019 Springer Nature Switzerland AG. Part of [Springer Nature](#).

Not logged in Not affiliated 193.29.30.135