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Program 2023

International Rights Catalog

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VDE Publishing House – competence in technical books!

Dear Colleagues,

It is my pleasure to present to you the **International Rights Catalog 2023 of VDE VERLAG**, the leading publishing house for technical books and dictionaries. We have compiled relevant titles of both programmes, Autumn 22 and Spring 23 into a years catalog for the international readers. It offers a wide range on specialist books with international appeal on the subjects: Electrical Installation, Building Technology, Building Services and Facility Management, Automation Engineering, General Electrotechnology, Organisation, Management and Law, Energy Systems Engineering, Air Conditioning and Ventilation Engineering, Refrigeration Engineering and Geoinformation.

Highlights in this year are:

- ▶ Electrical installation in accordance with regulations
- ▶ Trouble-free operation of PV systems and storage systems
- ▶ Heat pumps in household, trade and industry
- ▶ Basics of electrical engineering for self-study
- ▶ Crash course in control engineering
- ▶ Refrigeration expertise
- ▶ Manual of Air Conditioning Technology
- ▶ Fundamentals of geo-information systems

Our book program addresses to End Users in practice, Students and Professionals.

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I wish you an enjoyable browse through our catalog 2023!

Maria Pinto-Peuckman

Literary Agent for VDE VERLAG

World Copyright Promotion

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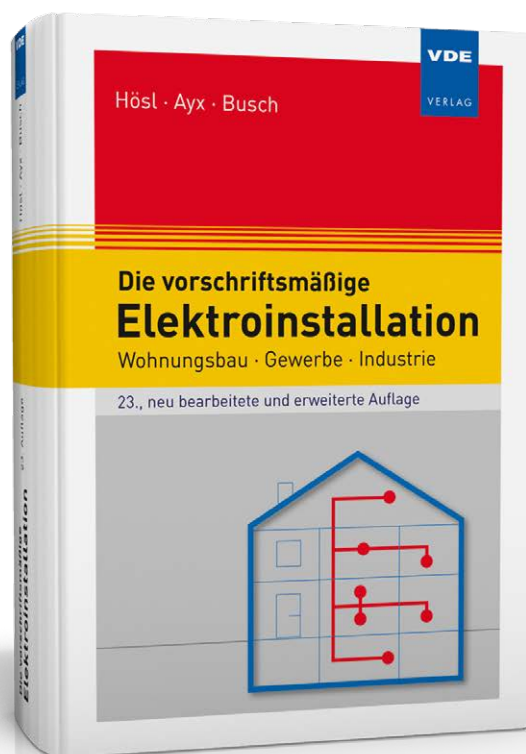
Hösl, Alfred; Ayx, Roland; Busch, Hans-Werner

Electrical installation in accordance with regulations

Residential – Commercial – Industrial

- ▶ The Hösl – the indispensable manual for every electrician!
- ▶ More than 1.000 changes due to the update of numerous regulations
- ▶ Manual for the entire field of electrical installation and systems engineering
- ▶ General overview of the regulations to be observed on the current status
- ▶ Illustration of the theory by means of problem descriptions, applications and examples from practice
- ▶ The standard work for safe and standard-compliant electrical installation!

Target group: For qualified electricians and persons trained in electrical engineering in trade, commerce, industry, agriculture, electricity supply/grid operation and services



Wolfgang Heinritz, who for many years was Branch Manager and previously Department Manager in the Electrical Engineering and Building Services Business Field of TÜV SÜD Industrie Service GmbH in Augsburg, and Claudia Hoffmann, who is an expert at TÜV SÜD Industrie Service GmbH in Ravensburg and a specialist at the TÜV SÜD Academy, have in-depth knowledge of the safe installation of electrical systems as a result of their work.

“Electrical Installation in Accordance with Regulations” is an indispensable handbook for safe and standard-compliant electrical installation. It covers the entire field of electrical installation and systems engineering and is characterised by the complete overview of the regulations to be observed at the current status.

Special emphasis is therefore placed in this book, as usual, on the practical and comprehensible implementation of the standards! The special problem descriptions, applications and examples from practice make it so clear. This standard work, which has been tried and tested for decades, provides a reliable and practical overview of the regulations that must be observed when planning, installing and operating low-voltage electrical systems.

23rd, newly revised and expanded edition 2022, XXVIII
1.053 pages, hardcover
€ 49.00

ISBN 978-3-8007-5751-0
Already published

Recommendations on the subject



VDE 0100 and the practice
Guide for beginners and professionals
ISBN 978-3-8007-5281-2



The future-proof electrical installation
A guide to the compliant installation of PV systems, stationary storage and charging infrastructures
ISBN 978-3-8007-4800-6



Charging infrastructure for electromobility in the private and semi-public sector
Selection – Planning – Installation
ISBN 978-3-8007-5746-6

Matheis, Wolfgang

Guide to safety power supply

Electrical installations in structures of a special type and use

- ▶ The guide for the electrical installation of security systems in buildings
- ▶ Systematic solutions to tasks and problems for the professional electrical installation of the safety system in the room
- ▶ Taking into account the requirements of fire protection
- ▶ Ideally suited for conceptual and systematic planning in compliance with current regulations and standards

Target group: Electrical engineers, master electricians, electronic technicians



Dipl.-Ing. (FH) Wolfgang Matheis has a total of 30 years of professional experience in the planning of electrical systems in buildings in the public and private sectors and works as a project manager on medium-sized and larger construction projects.

This guide provides a systematic solution to the tasks and problems of electrical installation for all security systems in buildings, applying the current regulations and standards. In particular, the requirements of fire protection for the different types of buildings are taken into account.

Additional costs due to rescheduling and reworking to certify effectiveness can be avoided if all essential requirements, especially structural fire protection with the technical installations and equipment rooms, are already taken into account in the preliminary design planning stage.

This volume presents tried-and-tested know-how that facilitates daily work and provides valuable support for the conceptual and systematic planning of security systems in buildings.

2nd, newly revised edition 2023

370 pages, softcover

€ 36.00

ISBN 978-3-8007-5829-6

Already published

Recommendations on the subject



Guideline safety lighting
Electrical installations in structures of special type and use
ISBN 978-3-8007-5484-7



Charging infrastructure for electromobility in the private and semi-public sector
Selection – Planning – Installation
ISBN 978-3-8007-5746-6



Allowed? Prohibited?
Electrical installation in questions and answers
ISBN 978-3-8007-5368-0

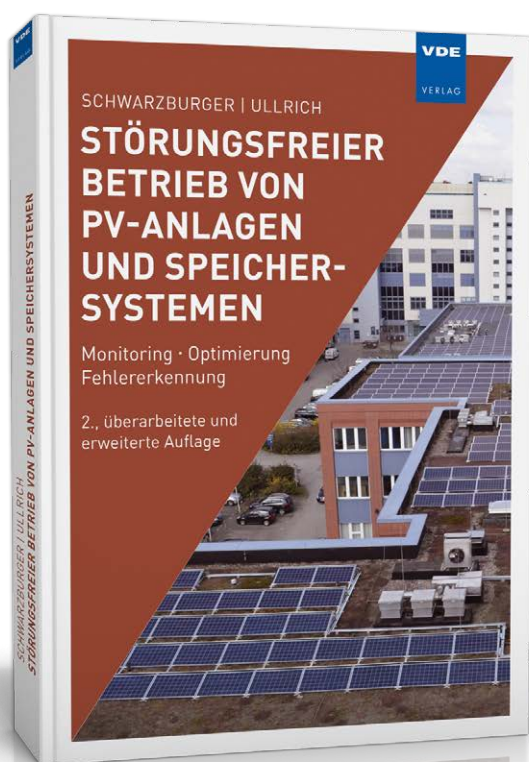
Schwarzburger, Heiko; Ullrich, Sven

Trouble-free operation of PV systems and storage systems

Monitoring – Optimisation – Error detection

- ▶ Practical tips for maintenance, cleaning, fault detection and optimisation of technical equipment
- ▶ Focal points: Monitoring, remote maintenance, thermography and electroluminescence
- ▶ In addition, there are important topics such as theft protection, repowering and protection against overvoltages and fires
- ▶ Information on legal issues and insurance
- ▶ With numerous illustrations

Target group: Solar technicians, service technicians, electrical tradesmen, specialist planners, experts, facility managers, plant operators, operating engineers



Dipl.-Ing. Heiko Schwarzburger MA is a mechanical engineer and publicist. He has been writing about energy and technology as an editor and publisher for 20 years, primarily for trade journals in the energy sector.

Dipl.-Pol. Sven Ullrich is a freelance trade journalist in Berlin. Since 2011, he has been reporting for the magazines "Erneuerbare Energien" and "Photovoltaik", primarily on current technological and economic developments in the solar industry and the energy efficiency of buildings.

The number of PV systems on German roofs and solar parks has now grown to over 2.5 million. Even if the solar generators have no hot or moving parts, they need regular inspections and tests. After all, solar generators are electrical systems connected to the power grid. They require little maintenance, but are not maintenance-free. This manual provides the operating engineer, service technician, specialist installer and system operator with comprehensive practical advice for the maintenance, cleaning, troubleshooting and optimisation of photovoltaic systems and battery storage systems. Aspects that are often neglected, such as theft protection and protection against damage caused by animals, play a role

2nd, revised and expanded edition 2023

246 pages, softcover

€ 44.00

ISBN 978-3-8007-6060-2

Already published

Recommendations on the subject



Energy generation without fossil fuels

Generation, transport and storage explained clearly

ISBN 978-3-8007-6045-9



Quality management in building technology

Technical monitoring and commissioning management

ISBN 978-3-8007-5013-9



KNX installations – error prevention during planning and installation

ISBN 978-3-8007-4349-0

Hackensellner, Thomas

Heat pumps in household, trade and industry

Basics – Simulation – Design

- ▶ Reference book on the production of heat with heat pump systems
- ▶ Presentation of the basics of heat pump technology
- ▶ Consideration of heat pump types, system components and design criteria
- ▶ Investigation of the environmental potentials compared to conventional heating systems
- ▶ Discussion of numerical simulation models for heat pumps
- ▶ Separate chapter on the topic of digitalisation and future-oriented functions in heat pump technology

Target group: Specialist planners, students and lecturers at universities, installers, system operators



Prof. Dr.-Ing. habil. Thomas Hackensellner has been Head of the Patent and Technical Regulations Department at Glen Dimplex Deutschland GmbH in Kulmbach since 2005. At the same time, he teaches energy technology at the Technical University of Munich in Weihenstephan.

The generation of environmentally friendly heat is becoming increasingly important nationally and internationally. The use of heat pumps plays a key role in this. This book aims to describe the fundamentals as well as the practical application of heat pumps for the generation of heat and to demonstrate their future viability. As an introduction, the author deals with the basics of heat pump technology, including technical, thermodynamic and energetic aspects. In addition, the author presents heat pump designs with exemplary system configurations. Other heat pump components are also considered. An energetic and environmental comparison with conventional heating systems illustrates the environmental potential of heat pumps. Finally, digitalisation in the field of heat pump technology, the resulting future-oriented functions for the operation of environmentally friendly heat pump systems and sustainability in relation to the entire life cycle of heat pumps are addressed.

2023
196 pages, softcover
€ 46.00

ISBN 978-3-8007-5796-1
Already published

Recommendations on the subject



Efficient operation of heat pump systems
Avoid planning errors – analyze problems – optimize work figures
ISBN 978-3-8007-5237-9



Refrigeration systems and heat pumps
Standards, directives and regulations for manufacture, provision and operation
ISBN 978-3-8007-4000-0



High temperature heat pumps
Market overview, state of the art and application potentials
ISBN 978-3-8007-4550-0

Weber, Gernot

Thermodynamics in building systems engineering

Basics and application

- ▶ Compact introduction to the most important interrelationships of thermodynamics in building systems engineering
- ▶ Presentation of the basics of thermodynamics
- ▶ Examples and calculations for application in building systems engineering
- ▶ Includes numerous illustrations to facilitate understanding

Target group: Students and lecturers of practice-oriented technical courses of study, engineers from the fields of energy and supply technology



Dr. Gernot H. Weber holds a doctorate in engineering and systems engineering, is the author of numerous technical books and a university lecturer at a vocational academy.

Today's energy supply in innovative building systems technology consists of a mix of conventional, rational and regenerative energy systems. The starting point for the evaluation and deeper understanding of these systems is technical thermodynamics. It explains the phenomena of energy conversion and energy transfer.

In this book, the author first presents the basics of thermodynamics briefly and clearly. Furthermore, he uses a large number of examples and calculations to show the application in building systems engineering. He deals with stationary flow processes, cooling processes and combustion processes as well as rational and regenerative energy systems. The application cases are supplemented with a large number of drawings that contribute to the understanding of the subject matter. The advantage over the established technical and teaching literature on thermodynamics is the compactness of the explanations, which allows a quick overview of the most important relationships.

2022
278 pages, softcover
€ 36.00

ISBN 978-3-8007-5547-9
Already published

Recommendations on the subject



TEK-EKG
Thermal / electrical system ECG of buildings and quarters

ISBN 978-3-8007-5957-6



Heat transfer in building system technology
Basics and application

ISBN 978-3-8007-4124-3



Fluid mechanics in building systems engineering
Heating – Ventilation – Water – Cooling

ISBN 978-3-8007-5210-2

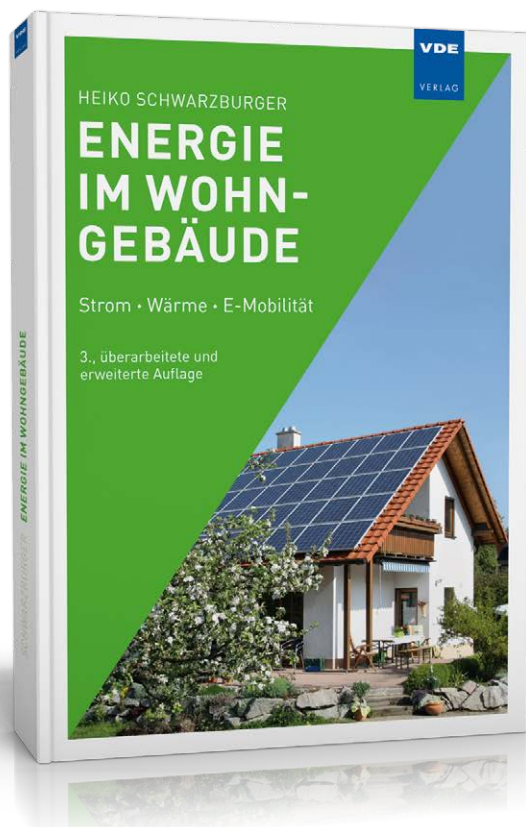
Schwarzburger, Heiko

Energy in the residential building

Electricity – Heat – E-Mobility

- ▶ Overview of the future-proof, efficient and cost-saving supply of residential buildings with electricity and heat
- ▶ **New:** Options for self-sufficient building energy supply
- ▶ Examination of all energy-related processes in the residential building for necessity, potentials and savings opportunities
- ▶ Focus on reducing energy consumption and costs and on energy generation from renewable sources

Target group: architects, civil engineers, building energy consultants, installers, building owners, approval authorities, real estate industry professionals



Dipl.-Ing. Heiko Schwarzburger MA is a mechanical engineer and publicist. He has been writing about energy and technology as an editor and publisher for 20 years, including as editor-in-chief and department head of various trade journals in the energy sector since 2006.

The steep rise in energy prices at the end of 2021 and in the course of 2022 have removed the last doubts: Renewable energies offer a variety of opportunities to curb the price explosion and become largely self-sufficient.

This book gives you a holistic approach to the residential building and its supply of electricity, heat and water. All processes that play an energetic role in the residential building are examined for their potential and savings possibilities. For this purpose, the author analyses and describes in detail the resources of the building and its surroundings - and how they can be used for a truly independent supply. He points out standards and regulations and gives practical advice for planning and installation.

3rd, revised and expanded edition 2023

201 pages, softcover

€ 42.00

ISBN 978-3-8007-5913-2

Already published

Recommendations on the subject



Solar power from the building envelope
Basics and practical tips for building-integrated photovoltaics (BIPV)

ISBN 978-3-8007-5309-3



Thermal insulation of buildings
Contemporary and versatile

ISBN 978-3-8007-3570-9



Compendium of Technology in Museums

ISBN 978-3-8007-5733-6

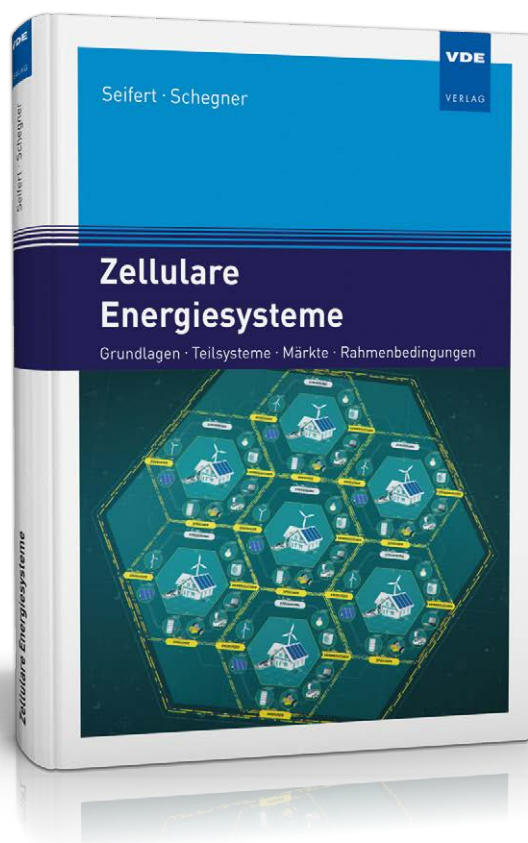
Seifert, Joachim; Schegner, Peter

Cellular energy systems

Basics, subsystems, markets, framework conditions, practical examples

- ▶ Transformation from centralized energy systems to decentralized cellular systems against the background of the energy transition
- ▶ Includes gas and heat grids as well as the communication infrastructure in addition to the consideration of electrical systems
- ▶ Presentation of the advantages of a cellular approach and the prerequisites for the convergence of individual cells and systems to further secure grid stability
- ▶ Consideration of regional and supra-regional energy markets as well as innovative communication technologies as part of the infrastructure to ensure data transmission

Target group: Engineering students with a focus on energy technology, engineers in planning practice as well as engineers in industrial research and development



Prof. Dr.-Ing. habil. Joachim Seifert graduated in mechanical engineering with a focus on technical building equipment at the TU Dresden. He is currently employed at the TU Dresden as head of the building energy technology division and at the TU Berlin.

Prof. Dr.-Ing. Peter Schegner studied electrical energy engineering at the University of Darmstadt. Since 1995, he has held the professorship for Electrical Power Supply at the TU Dresden.

The topic of this reference book is the transformation of the currently prevailing centralised energy systems to decentralised systems, or more precisely cellular energy systems, against the background of the energy transition. The authors show which advantages the cellular approach comprises and how it is possible to grow the individual cells and systems together in an orderly manner so that they can make an important contribution to grid stability.

The authors present the components used in cellular systems and consider the possible subsystems, such as buildings and neighbourhoods. Regional and supra-regional energy markets are examined and, in addition, the communication technologies that ensure data transmission as part of the infrastructure. Several examples of cellular energy system projects from practice and considerations of resilience round off the presentation.

2023

230 pages, hardcover

€ 56.00

ISBN 978-3-8007-5557-8

Already published

Recommendations on the subject



Protection and selectivity in low voltage installations

ISBN 978-3-8007-5844-9



Grid connection of renewable energy systems Plant engineering for electrical distribution networks

ISBN 978-3-8007-5827-2



Grid access electricity – simply explained

Library of the energy industry

ISBN 978-3-8007-4740-5

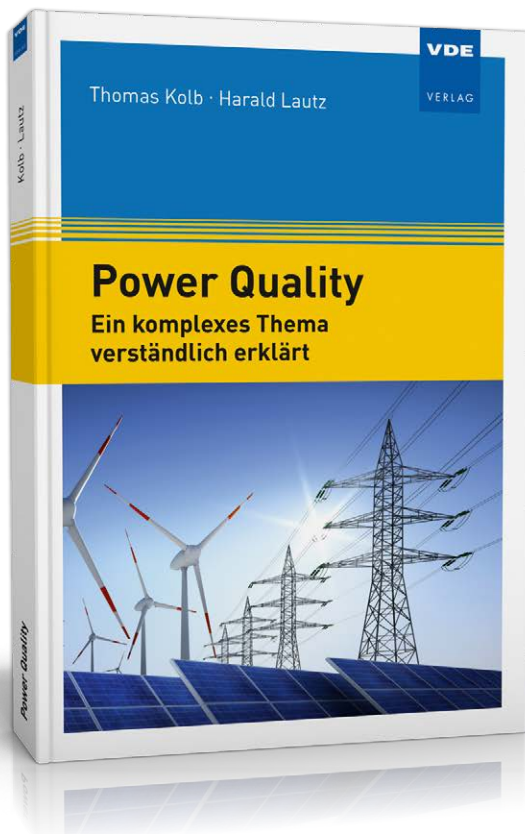
Kolb, Thomas; Lautz, Harald

Power Quality

A complex topic explained in an understandable way

- ▶ Understandable explanation of the complex challenge of power quality and its origins
- ▶ Focus: examples, tried and tested solutions and tips
- ▶ Transparent and comprehensive presentation of the very complex topic due to the extensive professional and customer experience of the authors

Target group: electricians, skilled workers, master craftsmen, students and managers with a technical and commercial background



B. Eng. Thomas Kolb is the founder and owner of Ceno Power Quality. **Dipl.-Ing. Harald Lautz** is active in his retirement with various consulting activities.

It describes the retroaction of electronic loads to save energy and the associated problems to a clean supply voltage for sensitive loads in the network of industry and trade.

In doing so, the topic is explained transparently and a wide range of readers who are concerned with the Power Quality challenge are addressed in an understandable way. It explains what is behind the challenge of PQ and where the problem comes from, which will occupy us for years to come. This means that the causes, the effects and the possible remedies are shown in an understandable way and also compared from a monetary point of view. The focus of the book is on examples, approaches to solutions and tips.

2023
115 pages, softcover
€ 29.00

ISBN 978-3-8007-5841-8
Already published

Recommendations on the subject



Onshore wind turbines
Plant engineering for electrical distribution networks
ISBN 978-3-8007-4964-5



Plant engineering 2020
for electrical distribution networks
ISBN 978-3-8007-4837-2



Electrical power engineering (set)
Calculations, formulas and tables according to HOAI
ISBN 978-3-8007-4311-7

Werner, Georg-Wilhelm

Maintenance using the example of current-carrying devices and systems

Overcurrent protection devices, selectivity, short-circuit protection, calculations for practice with Calckus

- ▶ Presentation of the requirements for a modern professional maintenance system on the way to Maintenance 4.0
- ▶ Presentation of a number of system elements, such as: maintenance-relevant requirements, equipment and unit classes, damage descriptions with causes and sources of damage, and much more
- ▶ Also includes maintenance-relevant service-providing department structure
- ▶ Explanation of the business assessment and control of maintenance processes

Target group: Electrical tradesmen, employees in electrical power supply and in electricity supply companies, maintenance-relevant management staff, trainees in the electrical trade



Prof. Dr.-Ing. habil Georg-Wilhelm Werner has been working as a freelancer since his retirement and is the author of several technical books. For many years he was head of the Chair for Maintenance and Reliability of Industrial Plants at the TU Otto von Guericke Magdeburg and founder of the engineering and consulting company WBI GmbH.

This book shows the requirements for a modern professional maintenance system on the way to Maintenance 4.0. For this purpose, a number of system elements with extensive metadata are presented, which are difficult or impossible to find in publications in this concreteness within the framework of an overall concept.

The most important key points here are:

- Maintenance-relevant requirements
- Equipment or unit classes
- Damage descriptions with causes and sources of damage, both general and for a variety of damages
- Operational systematic damage assessment
- Master technology for maintenance tasks
- Systematically structured organisational tasks
- Role structure in the personal responsibility of all (partial) tasks

2023
351 pages, softcover
€ 49.00

ISBN 978-3-8007-5410-6
Already published

Recommendations on the subject



**Maintenance
an operational challenge**
ISBN 978-3-8007-4003-1



**Labor Market Electrical
Engineering Information
Technology 2022**
ISBN 978-3-8007-5722-0



**Calculation
in small businesses**
ISBN 978-3-8007-5364-2

Nelles, Dieter; Nelles Oliver

Basics of electrical engineering for self-study

Volume 3: Magnetic fields

- ▶ Volume 3 deals with: magnetism in a homogeneous field, magnetic materials and especially iron saturation; magnetic fields and their forces; the laws of induction; Maxwell's equations.
- ▶ With detailed explanations, repetitions, examples and exercises

Target group: students of electrical engineering, computer science, physics, economics and mechanical engineering, High school students for career orientation and study preparation between A-levels and the start of their studies



Prof. Dr.-Ing. Oliver Nelles works at the University of Siegen at the chair "Measurement and Control Engineering # Mechatronics" in the Department of Mechanical Engineering, Faculty IV and continues the work "Fundamentals of Electrical Engineering for Self-Study" founded by **Prof. Dr.-Ing. Dieter Nelles**, who worked at the University of Kaiserslautern at the chair "Electrical Power Supply – Power Plant Technology and Power Transmission".

The four-volume basic work on electrical engineering is a valuable support for students of electrical engineering, computer science, physics, economics and mechanical engineering. It is suitable as a study companion for technical colleges and universities of applied sciences. Due to its structure, self-study is also possible without attending lectures. Contents: Simple direct current circuits; calculation methods for large networks; semiconductors with circuits; conduction mechanisms in liquids and gases; inhomogeneous flow fields.

2nd, revised edition 2023
329 pages, hardcover
€ 38.00

ISBN 978-3-8007-5802-9
Already published

Recommendations on the subject



Basics of electrical engineering for self-study – Volume 1
Direct current circuits
ISBN 978-3-8007-5640-7



Laplace-, Fourier- and z-Transformation
ISBN 978-3-8007-5371-0



Exam preparation electronics and information technology
ISBN 978-3-8007-4406-0

Nelles, Dieter; Nelles Oliver

Basics of electrical engineering for self-study

Volume 2: Electric fields

- ▶ Introduction to electrical engineering in four volumes
- ▶ Ideal for self-study
- ▶ Volume 1 covers: simple DC circuits, calculation methods for large networks, semiconductors and their circuits as well as conduction mechanisms in liquids and gases and inhomogeneous flow fields
- ▶ With detailed explanations, repetitions, examples and exercises

Target group: students of electrical engineering, computer science, physics, economics and mechanical engineering, High school students for career orientation and study preparation between A-levels and the start of their studies



Prof. Dr.-Ing. Oliver Nelles works at the University of Siegen at the chair "Measurement and Control Engineering # Mechatronics" in the Department of Mechanical Engineering, Faculty IV and continues the work "Fundamentals of Electrical Engineering for Self-Study" founded by **Prof. Dr.-Ing. Dieter Nelles**, who worked at the University of Kaiserslautern at the chair "Electrical Power Supply – Power Plant Technology and Power Transmission".

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2nd, revised edition 2023

299 pages, hardcover

€ 36.00

ISBN 978-3-8007-5799-2

Already published

Recommendations on the subject



Basics of digital technology
Modes of action, methods
and practical applications
ISBN 978-3-8007-4536-4



Digital technology
A descriptive and modern
introduction
ISBN 978-3-8007-3637-9



The Blue Cook Book
The cooking and baking book
for beginners and advanced cooks
ISBN 978-3-8007-4763-4

Kipker, Dennis-Kenji

Cybersecurity text collection

Important laws, regulations and EU directives

- ▶ Overview of the law in the field of cyber security
- ▶ Assistance with the practical implementation of IT security
- ▶ Contains regulatory requirements, ordinances and legal texts

Target group: Computer scientists, engineers, security officers, administrators, CIOs/CISOs, certifiers and technical consultants in the IT industry, Responsible persons from the economy and in public institutions, Professional groups entrusted with the implementation of corporate information security, all practitioners and those interested in this topic



Dennis-Kenji Kipker is a German-Japanese legal scholar and professor of IT security law. He is also a member of the board of the European Academy for Freedom of Information and Data Protection (EAID) in Berlin and a Legal Advisor at the VDE. Kipker is a laureate of the Berninghausen Prize and a member of the AG-Recht of the German IT Security Association TeleTrust.

The relevance of cyber security has grown exponentially in recent years. In 2015, Germany ventured an initial advance in the regulation of critical infrastructures with the first IT Security Act.

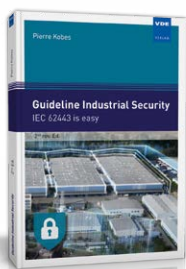
This collection of texts on cybersecurity provides important assistance in the practical implementation of cybersecurity by systematising the law of cybersecurity in a user-centred way in a compact volume. The declared aim is to provide practitioners with a tool tailored to their needs in order to deal with the special regulatory requirements of cybersecurity.

As a reference work, this book also contains all regulations and legal texts on this topic that are oriented towards practice and everyday business.

2022
334 pages, softcover
€ 39.00

ISBN 978-3-8007-5918-7
Already published

Recommendations on the subject



Guideline Industrial Security
IEC 62443 is easy
ISBN 978-3-8007-5305-5



TSN –
Time-Sensitive Networking
ISBN 978-3-8007-5078-8



Technology of networks (set)
Volume 1: Classical
Communication Technology
Volume 2: New Approaches:
SIP and QoS in IMS and NGN
ISBN 978-3-8007-5172-3

Kahlert, Jörg

Crash course in control engineering

A practice-oriented introduction with accompanying software

- ▶ Presentation of the basics of all topics of control engineering
- ▶ Deepening individual aspects with the help of mathematical tools
- ▶ Clear visual separation between basics and in-depth chapters
- ▶ New software variant with adapted examples for easier comprehension of the topics

Target group: Developers and users in industry, students of technical disciplines



Dr.-Ing. Jörg Kahlert heads an engineering office for software engineering and automation technology. He teaches the subjects "Control Engineering" and "Automation Engineering" at the SRH University of Applied Sciences in Hamm and at the Technical College at the Max Born Vocational College in Recklinghausen.

The study of control engineering is indispensable for the understanding of a multitude of technical, but also non-technical devices and processes.

This introductory book on control engineering conveys the basics of the individual topics and selected sub-aspects are then deepened with the help of appropriate mathematical tools. Almost all the topics covered in the book are supplemented by a large number of examples that can be reproduced with the accompanying software. They can thus be used as a starting point for your own experiments. This makes the subject of "control engineering", which is otherwise regarded as "dry" and very abstract, much more interesting.

5th, updated edition 2023

384 pages, hardcover

€ 42.00

ISBN 978-3-8007-5837-1

Already published

Recommendations on the subject



Control engineering
Introduction to the methods
and their application

ISBN 978-3-8007-5518-9



Basics of robotics

ISBN 978-3-8007-5699-5



Functional safety
Basic features of
safety-related systems

ISBN 978-3-8007-5357-4

Breidert, Hans-Joachim; Hoffmann, Michael

Formulas, tables and diagrams for refrigeration technology

- ▶ Formula collection with tables, diagrams and calculation formulas for project planning of refrigeration systems
- ▶ Presentation of physical basics, the calculation of the cooling demand as well as the design of components
- ▶ Overview of important symbols for the standard-compliant drawing of installations
- ▶ Including basics as well as relevant practice-related content of electrical engineering
- ▶ Quick and easy access to all relevant formulas and diagrams
- ▶ Ideal supplement to the textbooks and reference books in the subject area

Target group: Trainees in the refrigeration system installer trade, master refrigeration system installers, technicians as well as engineers and planners from the private and public sectors



Dipl.-Wirtsch.-Ing., Dipl.-Kfm. Hans-Joachim Breidert is a former owner and managing director of a medium-sized refrigeration and air-conditioning company and is familiar with the design, planning and construction of larger systems in trade and industry.

Dipl.-Ing. Michael Hoffmann is a lecturer in electrical and control engineering at the Federal College of Refrigeration and Air Conditioning Technology in Harztor and co-author of the book "Kälteanlagen-technik".

The physical principles required for the design of refrigeration systems are clearly arranged in this collection of formulas. The tables, diagrams and formulas for calculating the refrigeration demand and for designing the components of refrigeration systems are arranged thematically and include material data and key figures. A detailed overview of important symbols helps with the standard-compliant drawing of systems.

This collection of formulas is the ideal supplement to the commonly used textbooks and technical books, because it enables quick access to the data relevant to practice in the subject area. The 7th edition has been updated to the state of the art.

7th, updated and revised edition 2023

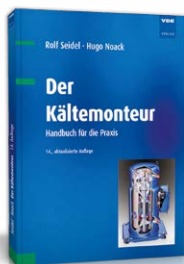
288 pages, softcover

€ 36.00

ISBN 978-3-8007-5612-4

Already published

Recommendations on the subject



The refrigeration mechanic Manual for practice

ISBN 978-3-8007-4281-3



Refrigeration for engineers

ISBN 978-3-8007-5240-9



Refrigeration Basics Check-up

ISBN 978-3-8007-5565-3

Reisner, Klaus; Reisner, Timo

Refrigeration expertise

An introduction for initial and further training with exercises and solutions

- ▶ Practical textbook for an introduction to refrigeration technology
- ▶ From the physical basics to the refrigerating machine and its components
- ▶ Comprehensible knowledge transfer through integrated example exercises, easy-to-follow calculations and illustrative diagrams
- ▶ Includes an exercise section with exercises and detailed descriptions of how to solve them
- ▶ Extended content on the topics of economy and energy efficiency
- ▶ Ideal for self-study

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Dipl.-Ing. Klaus Reisner runs an engineering office for refrigeration technology and works as a publicly appointed and sworn expert. He is the author of various technical publications and organises seminars on the basics of refrigeration technology.

Dr.-Ing. Timo Reisner works as an expert in the field of refrigeration, air conditioning and ventilation technology. He is a trained refrigeration engineer and holds a doctorate from the Faculty of Civil and Environmental Engineering at the Ruhr University in Bochum.

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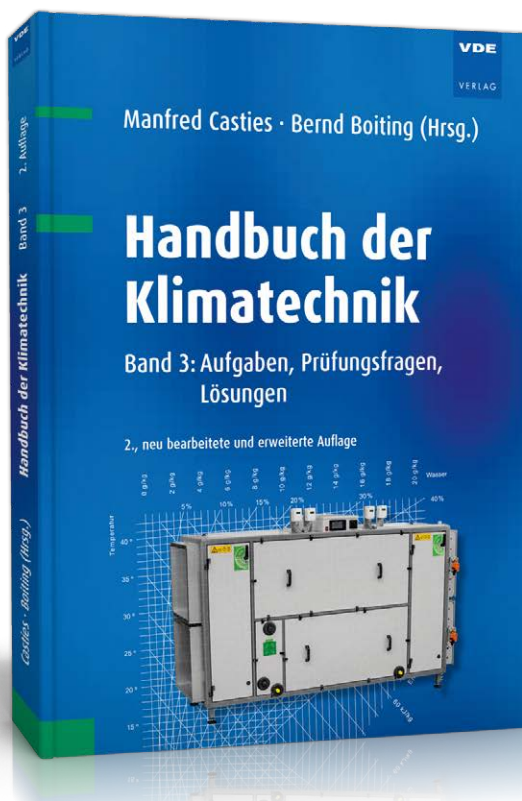
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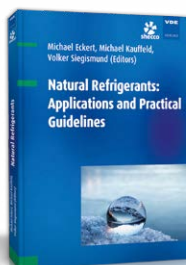
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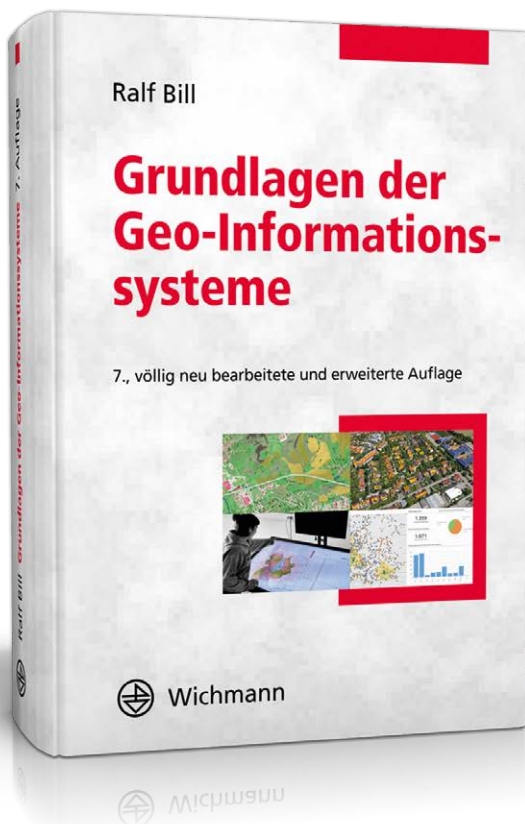
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