Program 2019

International Rights Catalog

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Dear Colleagues,

It is my pleasure to present to you the **International Rights Catalog 2019 of the VDE VERLAG**, the leading publishing house for technical books and dictionaries. We have compiled relevant titles of both catalogs, Spring and Autumn into a years catalog for the international readers. It offers a wide range on specialist books with international appeal on the subjects: Electrical Planning and Installation, Standards and Safety, Electrical Power Engineering, Network Technology / Network Operation, Energy Law / Energy Market, General Electrical Engineering, Residential Construction Building Practice and Construction Management, Air Conditioning and Ventilation Engineering, Refrigeration Engineering, Geo-Informatics / GIS Photogrammetric / Remote Sensing, Automation Technology, Organization / Management / Law.

**Highlights in this year are:**
- Lighting Technology for Practitioners
- Electrical Security in Electro Mobility
- Crash Course Control Technology
- Onshore Wind Energy Plant
- Project Planning Aid for Electrical Systems in Buildings
- Smart Grids
- The Practice of Construction Manager
- Housing Ventilation in Existing Buildings
- Pohlmann, Refrigeration
- Lexicon Refrigeration

Our book program addresses to End Users in practice, Students and Professionals. For further information please visit: [www.vde-verlag.de/foreign-rights](http://www.vde-verlag.de/foreign-rights)

We control world rights on all new and backlist titles and I would be happy to provide you with reading samples.

**I wish you an enjoyable browse through our catalog 2019!**

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**Content**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Installation</td>
<td>3-5</td>
</tr>
<tr>
<td>Standards and Safety</td>
<td>6-19</td>
</tr>
<tr>
<td>General Electrotechnology</td>
<td>20</td>
</tr>
<tr>
<td>Automation Engineering</td>
<td>21-23</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>24-25</td>
</tr>
<tr>
<td>Energy Law and Energy Market</td>
<td>26</td>
</tr>
<tr>
<td>Network Technology – Network Operation</td>
<td>27</td>
</tr>
<tr>
<td>Building Law Practice and Construction Management</td>
<td>28</td>
</tr>
<tr>
<td>Refrigeration Engineering</td>
<td>29-31</td>
</tr>
<tr>
<td>Air Conditioning and Ventilation Engineering</td>
<td>32-33</td>
</tr>
<tr>
<td>Organization, Management and Law</td>
<td>34</td>
</tr>
<tr>
<td>Geoinformation – GIS</td>
<td>35</td>
</tr>
</tbody>
</table>
Hösl, Alfred/Ayx, Roland/Busch, Hans-Werner

**The Electrical Installation According to Regulations**

**Residential Construction · Commerce · Industry**

- The Hösl – the indispensable manual for every electrician!
- Handbook for the entire range of electrical installation and system technology
- General Overview of the regulations to be observed
- Explanation of the theory based on problem descriptions, applications and practical examples
- The standard work for safe and standard-compliant electrical installation!

**Target Audience**
Electricians

**Fields of Expertise**
Electrical installation, electrical planning

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Dipl.-Ing. (FH) Wolfgang Heinritz and Dipl. Ing. (FH) Claudia Hoffmann have assumed the conscientious editing of the 22th edition of this from Dr.-Ing. Alfred Hösl established and from Dipl.-Ing. Roland Ayx as well as from Dipl.-Ing. Hans-Werner Busch continued standard work. Wolfgang Heinritz as branch manager and before head of department in the electrical and building technology business unit of the TÜV SÜD Industry Service GmbH in Augsburg and Claudia Hoffmann as an expert of TÜV SÜD Industrie Service GmbH in Ravensburg and technical officer of the TÜV SÜD Academy they have many years of experience with in-depth knowledge of the safe Installation of electrical systems.

“The Electrical Installation According to Regulations” is an indispensable manual for safe and standard electrical installation. It covers the entire range of electrical installation and system technology. Special problem descriptions, applications and practical examples make this book so vivid. The standard work, which has been approved for decades, conveys a usual reliable and practical overview of the regulations. This work is therefore a must for all the involved with the practical and standard-compliant electrical installation and expect quick answers to their questions!

22th new updated and extended Edition, 2019. 1,028 Pages
€ 46.00
ISBN 978-3-8007-4709-2
Already published

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**Recommendations on the subject**

- **€ 44.00**
  ISBN 978-3-8007-4344-5
  - VDE 0100: Die Prüfung elektrischer Anlagen am Standort

- **€ 39.00**
  ISBN 978-3-8007-4254-7
  - Planung elektrischer Anlagen

- **€ 36.00**
  ISBN 978-3-8007-4691-0
  - Projektierung elektrischer Anlagen in Gebäuden
Ris, Hans Rudolf

**Lighting Technology for Practitioners**

**Basics • Lamps • Lighting • Planning • Measurement**

- The standard work of practical lighting technology!
- New possibilities in the field of modern lighting technology
- Display of developments in building automation and lighting control
- Description of suitability for daily use of LEDs
- Treated both indoor and outdoor installations

**Target Audience** Architects, lighting planners, engineers, experts, technicians

**Fields of Expertise** Lighting technology

Dipl. El.-Ing. FH Hans Rudolf Ris graduated after vocational training as an electrical draftsman a degree in electrical engineering. After practical planning activity in electrical energy technology he was active till 2004 as a lecturer for the special field lighting technology at the Swiss Technical College STFW in Winterthur. From 1978 to 2008 Hans Rudolf Ris was editor-in-chief of the Swiss Journal "Electrical Engineering". Currently he is a lecturer at the "College" by the SLG Swiss Light Society. He is the author of numerous specialist articles and publications on the subject of lighting technology.

Lighting technology is one of the innovative divisions within the technical sector ‘Building Equipment’ and passes through several levels an extraordinarily dynamic phase. Well planned lighting systems are based on professionally developed solutions, whereby all relevant parameters as well as standards and regulations must be taken into account and adhered to. Addressed are especially practitioners of lighting design, architects, technicians, engineers and experts.


€ 48.00

ISBN 978-3-8007-4855-6

Already published

**Recommendations on the subject**

- € 36.00
  ISBN 978-3-8007-4451-0

- € 44.00
  ISBN 978-3-8022-1155-3

- € 45.00
  ISBN 978-3-8007-4355-1
Scherer, Gerd A.

Exam Questions with Answers, To Selection for the Electrical Trades

Professional Advanced Knowledge of the Electro Technique and Accident-Prevention for Mechanics – Masters – Technicians

- The bestseller in its 10th edition for budding journeymen, masters and technicians of the electrical trade
- Action-oriented expertise on VDE regulations and BG prevention
- With model examinations for autonomous review of learning progress
- Including solutions and their reference in the standards work

Target Audience: Apprentices, electrical specialists, master students
Fields of Expertise: Electrical installation, electrical planning, electrical engineering

Gerd A. Scherer is one of the few authors who have learned the craftsmanship of electric engineering from the ground up. After his apprenticeship and journeyman time he was entrusted for many years with a variety of work placement tasks in trade and industry. Afterwards, an additional educational training led him to the field of training in electrical vocational schools, master schools and technician schools. His books are not only based on own teaching experiences in dealing with young people and adults; they are also a result of his long-standing commitment in the audit field on journeyman and master level.

The proven standard work supports all electrical professionals, students and audit committees of the electric industry, in acquiring the current necessary knowledge of VDE and professional association regulations as well as expanding and reviewing them. The numerous practical examination tasks – with simultaneous announcement of the solution path and source of information – make it possible to learn a broad base of knowledge. An optimal learning success is guaranteed!

10th new revised and extended Edition, 2019. 564 Pages
€ 48.00
ISBN 978-3-8007-4751-1
Already published

Recommendations on the subject

- € 39.00
  ISBN 978-3-8007-4406-0
- € 38.00
  ISBN 978-3-8007-3668-3
- € 29.00
  ISBN 978-3-8007-3483-2
Kreienberg, Michael
VDE Publication Series – Volume 1

Where is What in the VDE-Regulations?
2019

Index of all DIN VDE-Standards and VDE-Application Rules, taking into
Account DIN EN and DIN IEC Standards with VDE-Classification and
the Books of the VDE-Publication Series “Standards Understandable”

- Current index of the VDE-Regulations which are relevant for the most important electrical equipment, machines, plants and associated terms
- Guideline about the groups 0 to 8 of the VDE-Regulations
- In consideration of VDE-Application rules and VDE-Publication series “Standards Understandable”

Target Audience:  Electrical engineers, engineers, standards users
Fields of Expertise: Electrical engineering, standardization

Dipl.-Ing. (FH) Michael Kreienberg (VDE) is the responsible editor
in the VDE VERLAG for the VDE-Publication series “Standards Understandable”. He also represents the topics of general electrical engineering and electrical power engineering.

Using the index, electrical equipment, machinery and plants can be quickly and easily assigned to the appropriate VDE regulations. Anyone interested will receive with this well-known standard work a clear overview in the extensive standard-specification works.

2019. 532 Pages
€ 27.00
ISBN 978-3-8007-4831-0
Already published

Recommendations on the subject
Sieper, Peter/Klotz, Wolfgang
VDE Publication Series – Volume 11

Power Plant with Nominal AC Voltages Above 1 kV
Explanations to DIN EN 61936-1 (VDE 0101-1): 2014-12

- Notes on deepening the normative requirements and facilitating the implementation of the standard in practice
- Declaratory illustrations to answer the questions that arise in everyday working life
- Treatment of the changes to the previous DIN VDE 0101

Target Audience: Operators, installers, engineers, master craftsmen, planners, students, technicians
Fields of Expertise: Electrical power engineering, standardization

Dipl.-Ing. Peter Sieper was at RWE Net AG in Dortmund up to his retirement responsible for the design, construction and operation of High-voltage switchboards. He was chairman of the committee K 222 of the DKE.

Dipl.-Ing. Wolfgang Klotz is responsible for Siemens AG in Erlangen for specialised topics in connection with high-voltage switchgears and high-voltage plants. He was a member of the committee K 222 of the DKE.

The work clearly illustrates the establishment provision for heavy power systems with rated AC voltages above 1 kV. This puts the reader in the position to deepen the normative requirements and apply the standard easily in practice. Questions that occur in much professional life can be answered clearly based on practical presentations. In addition, the changes to the previous DIN VDE 0101 are treated.

11th revised Edition, 2018. 192 Pages
€ 29.00
ISBN 978-3-8007-4688-0
Already published

Recommendations on the subject

- € 29.00
  ISBN 978-3-8007-4376-6

- € 24.00
  ISBN 978-3-8007-4068-0

- € 24.00
  ISBN 978-3-8007-3535-8
Recommendations on the subject

**Hennig, Wilfried**

**VDE Publication Series – Volume 43**

**VDE Examination According to BetrSichV, TRBS and DGUV Regulation 3**

Explanations to DIN VDE 0100-410, DIN VDE 0100-430, DIN VDE 0100-510, DIN VDE 0100-540 and DIN VDE 0100-600, DIN VDE 0105-100 / A1, DIN VDE 0701-0702, DIN EN 61557 (VDE 0413), DIN EN 60204-1 (VDE 0113-1), et al.

- Professional support for the safety of electrical systems and equipment and the duties of employers or supervisors
- The book on BetrSichV, TRBS and DGUV
- Tables and forms give an overview of what and how to check
- The tools and aids for electricians in complying with the test requirements

**Target Audience**  Operators, installers, planners and auditors of electrical systems, electricians

**Fields of Expertise**  Electrical installation, electrical planning, standardization

Dipl.-Ing. Wilfried Hennig has been since 2007 an expert of the BDSF for the department of electrical engineering “Testing of Electrical Installations and Equipment” and as a recognized expert in various national standardization bodies.

The work is the ideal professional support for all questions concerning VDE examinations in connection with BetrSichV, TRBS and DGUV. In the form of clearly arranged tables and forms, it is conveyed what exactly needs to be checked and which specific values must be observed. Electricians receive helpful support in compliance with the test requirements.

12th revised Edition, 2019. 547 Pages

€ 36.00

ISBN 978-3-8007-4812-9

Already published

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**Recommendations on the subject**

**€ 36.00**


**€ 29.00**

ISBN 978-3-8007-4438-1

**€ 28.00**

ISBN 978-3-8007-4322-3
Recommendations on the subject

Rudnik, Siegfried
VDE Publication Series – Volume 63

Initial Testing of Electrical Systems
Tests Prior to Commissioning • Visiting • Testing • Measuring According to DIN VDE 0100-600

Practical description of the standard DIN VDE 0100-600, its background and the requirements of further applicable standards
Explanation of the proving and measuring procedures
Special consideration of the standard series DIN EN 61557 (VDE 0413)

Target Audience
Apprentices, construction technicians, master craftsmen, safety specialists, safety engineers, students

Fields of Expertise
Electrical installation, electrical planning, standardization

Erstprüfung von elektrischen Anlagen

Prüfungen vor Inbetriebnahme
• Absicht
• Ergebnis
• Messung
nach DIN VDE 0100-600

Dipl.-Ing. Siegfried Rudnik has many years of practical experience in standardization and was active as a recognized expert in numerous national and international standards committees. Siegfried Rudnik is the author of numerous textbooks.

Each electrical system must be tested in accordance with DIN VDE 0100-600 prior to commissioning, during construction or on completion by inspection, testing and measuring. The work deals with the background of the standard and the requirements of further applicable standards in order to enable practical implementation. For this purpose, the testing and measuring procedures are also comprehensively explained.

5th completely revised Edition, 2019. 223 Pages
€ 32.00
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Recommendations on the subject

€ 34.00
ISBN 978-3-8007-4295-0

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- Reference book with interpretations as well as tables and illustrations from DIN-VDE standards
- Quickly locate the relevant DIN standards, DIN-VDE standards and VDI/VDE guidelines with explanations
- Adaptation to the latest standards
- Wide range of topics: From planning to preparation, installation, commissioning and maintenance

Target Audience  Electricians, engineers, fitters, MSR specialists, technicians

Fields of Expertise  Automation technology, standardization

Dipl.-Ing. Dipl.-Wirts.-Ing. Rolf Rüdiger Cichowski, MBA, is an author and management consultant. He has held several positions of responsibility during his active career and is a member of technical boards and committees.

The reference book offers interpretations as well as numerous tables and illustrations from DIN-VDE standards, so that it can be used immediately as a companion for the practice and saves time-consuming research. The standards of interest can be found quickly by reference to the source of standards. From planning to preparation, installation, commissioning up to maintenance of electrical and automation / control systems covers this book a wide range of topics.

3th revised and extended Edition, 2018. 264 Pages

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Already published
Recommendations on the subject

Hofheinz, Wolfgang

VDE Publication Series – Volume 117

Electric Security in Medically used Areas


- Explanation of the installation and operation of electrical systems and their requirements
- Presentation of the structure of the electrical power-supply and the corresponding protective measures
- Discussion of the application, design and testing of medical electrical-equipment and systems

Target Audience Electricians

Fields of Expertise Electrical installation, electrical planning, medical technology, standardization

Dipl.-Ing. Wolfgang Hofheinz was until his retirement managing director of the company Bender in Grünberg / Hessen. He is in numerous national and international standards committees active and was chairman of the DKE.

The particularity of the textbook is that two main focuses of electrical safety are addressed: the security of electrical power-supply as well as that of medical electrical-equipment and Systems. The work is a helpful reference book for both subject areas and a practical guide.


€ 29.00

ISBN 978-3-8007-4745-0

Already published

Recommendations on the subject

€ 36.00

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€ 29.00

ISBN 978-3-8007-4400-8

€ 19.50

ISBN 978-3-8007-2781-0
Jackisch, Joachim

VDE Publication Series – Volume 133

The BGB Contract of Work and Labour for the Electrical Engineering

Selected Terms and Basic Questions to the BGB Work Contract and Similar Contracts §§ 631 to 650v, Taking Into Account the Debt Law Reform of January 1, 2018, BGB Reference Clause, Case Studies with BGH-Judgments

- Funded entry into the BGB contract law with regard to electrical engineering
- BGB reference paragraphs at a glance
- With practical examples from the fields of construction and electrical engineering
- Including case studies with BGH judgments
- With explanations of exemplary terms of the contract of employment contract

Target Audience: Engineers, masters
Fields of Expertise: Electrical engineering, standardization

Construction Director Dipl.-Ing. Joachim Jackisch has been a government architect for 25 years specializing in mechanical engineering / electrical engineering at the State Building Administration of the Free State of Bavaria.

Contract work in the field of electrical engineering in daily business often overlaps with the contract of work and labour law. Main topic of this new release is the BGH contract for work regard to electrical engineering. Starting with an overview of the BGB and on the basis of practical examples the basic features of the contract work for electrical engineers are explained. The work shows a working technique with reference paragraphs, which is also catchy to non-lawyers.

2nd updated and extended Edition, 2019. 331 Pages
€ 32.00
ISBN 978-3-8007-4845-7
Already published

Recommendations on the subject

€ 29.00
ISBN 978-3-8007-3563-1

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ISBN 978-3-8007-3666-9

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Cichowski, Rolf Rüdiger  
VDE Publication Series – Volume 142  

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- Systematic overview of all standards relevant for construction sites and professional association information
- From DIN VDE 0100-704 up to DGUV-Information 203-006
- With checklists, photos and illustrations
- For all electricians on construction sites

**Target Audience**  
Operators of electrical installations, installers of electrical installations, planners of electrical installations, safety experts

**Fields of Expertise**  
Electrical installation, electrical planning, standardization

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Dipl.-Ing. Graduate in industrial engineering. Rolf Rüdiger Cichowski, MBA has in addition to his professional experience over many years practical Experience in standardization and worked as a delegate of network operators and SME in various DKE standards committees. He has been active as an author for VDE VERLAG for more than 35 years. 

Electrical systems and equipment are on construction sites exposed to special conditions and stresses. The VDE series gives an overview of all construction sites relevant standards and corresponding trade association information. Practical checklists, photos and illustrations additionally loosen the content. A useful guide for everyone electricians on construction sites!

€ 29.00  
ISBN 978-3-8007-4926-3  
Already published
Project Planning Aid for Electrical Systems in Buildings

Introduction to the Practice and Calculation Methods

- Practical standard work on the mathematical verification for the dimensioning of electrical equipment, lines and lighting systems
- Content update based on the latest regulations
- With numerous examples from installation practice

Target Audience: Electricians, electrical planners, installers, students
Fields of Expertise: Electrical installation, electrical planning, standardization

Prof. Dr.-Ing. Ismail Kasikci taught electrical engineering, electrical building equipment and renewable energy systems at Biberach University of Applied Sciences. He is a member of the DKE Committee K 221 of the DKE as well as of various DIN-Standardization committees.

Planners and installers of electrical installation systems must fulfill for the dimensioning of electrical equipment, lines and lighting systems conform to the standards a number of mathematical verification. This standard work shows the user by means of examples, when calculations are needed and useful. The practical presentation focuses on the calculation methods and is therefore a valuable reference book for the daily work.

8th revised Edition, 2018. 296 Pages
€ 36.00
ISBN 978-3-8007-4691-0
Already published
Straube, Axel

VDE Publication Series – Volume 157

The Safe and Economical Operation of Electrical Systems


- Management of human and technology in the operation of electrical systems
- Explanation of the commercial, organizational, technical and safety aspects from the operator’s point of view
- Orientation in the field of tension between business administration and technology
- Development of the required economic competencies for the operation of electrical systems in the context of all management tasks
- Consideration of interfaces to other (non-technical) functional areas in the company

Target Audience
Managing directors, engineers, chief electricians, master craftsmen, students, technicians, industrial engineers

Fields of Expertise
Management, standards and comments

Dipl.-Ing. Axel Straube, LL.M. (Oec.) is the head of the department for electrical systems and networks at a network operator in North Rhine-Westphalia.

The work explains the commercial, organizational, technical and safety aspects from the point of view of the operator of electrical systems. It offers orientation in the field of tension between business administration and technology. The aim is to convey the necessary competences for the operation of electrical systems in the context of all management tasks.

2019. 343 Pages
€ 34.00
ISBN 978-3-8007-4475-6
Already published

Recommendations on the subject

- € 32.00
  ISBN 978-3-8007-4101-4
- € 36.00
  ISBN 978-3-8007-3399-6
- € 32.00
  ISBN 978-3-8007-3625-6
Recommendations on the subject

Cichowski, Rolf Rüdiger
VDE Publication Series – Volume 168

The Central Theme through the Group 700 of DIN VDE 0100
Installation of Electrical Systems in Operating Facilities, Rooms and Facilities of Special Type

- Fast introduction to the requirements of group 700 of DIN VDE 0100
- Assistance in the planning, construction and operation of electrical installations in special circumstances
- The central theme: always when it comes to the construction of low-voltage systems, especially the requirements for operating facilities, rooms and facilities of special type
- With short overview for quick information regarding the requirements

Target Audience: Electricians, master students
Fields of Expertise: Electrical installation, electrical planning

Dipl.-Ing. Graduate in industrial engineering Rolf Rüdiger Cichowski, MBA has in addition to his professional experience over many years practical experience in standardization and worked as a delegate of network operators and SME in various DKE standards committees. He has been active as an author for VDE VERLAG for more than 35 years.

The VDE Publication Series – Volume 168 enables a quick introduction to the requirements of group 700 of DIN VDE 0100. Whenever it comes to the construction of low-voltage systems, especially the requirements for operating facilities, rooms and facilities of special type, raisers, installers and electricians can use this helpful book. Also for the education and training as well as for educational purposes, it is ideally suited. For quick information, there is a short overview.

€ 30.00
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Already published

Recommendations on the subject

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  ISBN 978-3-8007-4233-2

- € 29.00
  ISBN 978-3-8007-4373-5

- € 36.00
  ISBN 978-3-8007-4224-0
Wilrich, Thomas

VDE Publication Series – Volume 172

**Inventory Protection or Retrofit Obligation?**


- Practical answers to the question of “Inventory Protection or Retrofit Obligation?”
- With 30 court judgments from case law
- In consideration of the workplaces regulations, industrial health and safety regulations and DGUV regulation 3

**Target Audience**
Plant managers, managing directors, lawyers, experts, safety engineers, safety coordinators, technical managers, responsible electricians

**Fields of Expertise**
Electrical engineering, standardization

Prof. Dr. Thomas Wilrich is a specialist lawyer for administrative law and et al. in the areas of labor law/occupational safety/industrial safety as well as product safety and product liability law/technical acting right.

This guide provides practical answers to the question “Inventory Protection or Retrofit Obligation?” And contain 30 court judgments from the case law practice. The author would like to depict the reader – not a few – pitfalls, but also show solutions. Nevertheless the work was written by a lawyer, it turns to the practitioners, in particular to planners and plant operators.

2nd revised and extended Edition, 2019. 311 Pages
€ 34.00

ISBN 978-3-8007-4920-1

Already published
Recommendations on the subject

Schmolke, Herbert
VDE Publication Series – Volume 173

Fire Protection Rating and Testing Electrical Systems
Planning, Testing, Construction from the Point of View of the Fire Damage Prevention in Accordance with the VdS-Guidance

- Practical aid for the planning and construction of electrical systems from the point of view of fire damage prevention
- Commentaries on the relevant standards, especially the from the DIN VDE 0100 series of standards
- With special consideration of the VdS guidelines

Target Audience
Installers, engineers, masters, planners, experts, technicians

Fields of Expertise
Fire protection, electrical planning, standards and safety

Dipl.-Ing. Herbert Schmolke was until 2017 as an electrical engineer at the VdS Schadenverhütung GmbH responsible for the recognition and professional support of electrical engineering experts and thermography and consulting. He was an employee in numerous DKE bodies, eg. B. K 224 (The operating of electrical installations), UK 221.1 (Protection against electric shock) and in committees for the preparation of VdS-Guidance.

This book offers optimal support for the planning and construction of electrical systems from the perspective of the property and fire damage prevention. Relevant standards, especially from the series of the standards DIN VDE 0100, technical rules and legal provisions are here commented in line with actual practice.

The regulations of the VdS-Guidance are special considered.

2018. 318 Pages
€ 34.00
ISBN 978-3-8007-4736-8

Already published

Recommendations on the subject

€ 29.00
ISBN 978-3-8007-3545-7

€ 32.00
ISBN 978-3-8007-4547-0

€ 34.00
ISBN 978-3-8007-4421-3
Electric Security in Electro Mobility
Basics, Application and Mode of Action for Protection Against Electric Shock in the Electric Mobility DIN VDE 0100-100 and More

- Description of protective measures and normative guidelines in the electric vehicle, in the charging station as well as in the loading group for the different loading modes that are to be kept
- Important focus: Protection against electric shock
- Development of basics of electro mobility and electrical protection
- In particular consideration of the process of standardization and the status of standardization

Target Audience
Electrical engineers, master electricians, electronics technicians

Fields of Expertise
Electro mobility, standardization

Dipl.-Ing. Wolfgang Hofheinz was till his retirement managing director of the company Bender in Grünberg/Hessen. He is in numerous national and international standards committees active and was chairman of the DKE.

M. Eng. Dennis Haub is within the Bender group responsible for the standardization in the field of electro mobility.

Dipl.-Ing. Michael Zeyen is the founder of vancom GmbH & Co. KG and supports vehicle manufacturers and system suppliers in the technical implementation of their e-mobility strategy. He is in many national and international standards committees active.

Due to the increasing number of electric vehicles and charging stations receives the protection against electric shock in electric mobility a increasing importance. The new release describes protective measures and normative requirements in the electric vehicle, in the charging station as well as in the charging network for the different loading modes that have to be adhered to. For this are also mediated the basics of electro mobility and electrical protection technology.

2019. 117 Pages
€ 28.00
ISBN 978-3-8007-4882-2
Already published

Recommendations on the subject

€ 34.00
ISBN 978-3-8007-4417-6

€ 34.00
ISBN 978-3-8007-4430-5

€ 54.00
ISBN 978-3-8007-3596-9
Gerhard Ebner has been for many years director of the department for information technology in the Bavarian Guild for the electrical trade. He is a member of the examination board in Würzburg. His extensive experience in exam requirements and his findings from the reorganization of the examination regulations for apprenticeships in the electrical trade flows into this book.

In the final examination of vocational training in the electrical trade, it is the task of the candidate to show that he can identify and analyze customer wishes and problems as well as plan and design information and communication technology systems. The interesting textbook contains questions, answers and tasks concerning all relevant examination contents in the field of electronics and information technology. The range of topics includes amongst others the basics, electro-acoustics, communication technology, network technology, PC technology, high-frequency technology, regulations and environmental protection as well as customer service and business processes.

5th updated and extended Edition, 2019
465 Pages. With DVD
€ 39.00
ISBN 978-3-8007-4406-0
Already published
Hofer, Johannes

**Automate with Web Technologies**

*Java Script and Node.js*

- Understandable presentation of programming with web technologies
- Description of the Basics for Automating with the Internet: Node.js, JavaScript, and Google Chrome
- Introducing JS with SVG elements and scripts
- Practice example with NodeMCU
- Including DVD with complete source code of the topics covered

**Target Audience**
Engineers, JS-programmers, programmers, technicians

**Fields of Expertise**
Automation, programming, control technology

Johannes Hofer has been working in automation for many years. He has extensive experience as a commissioning and project engineer and has led numerous seminars and training courses on C++ and SCL. From C/C++ programming he has switched to JavaScript.

The new book introduces the possibilities of programming Web technologies understandable. For this the basics for automating with the Internet (Node.js, JavaScript and Google Chrome) will be described in detail. The basic example used with the NodeMCU illustrates what has been learned from the previous chapters for a practical application. The accompanying DVD contains the complete source code for the chapters covered and serves as the basis for an independent, further development of the topics shown in this book.

2019. 236 Pages. With DVD
€ 39.00
ISBN 978-3-8007-4934-8
Already published

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**Recommendations on the subject**

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Kanngießer, Ulrich

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**Fields of Expertise**  Automation technology, electrical engineering

Ulrich Kanngießer works as a freelance specialist author and seminar provider. He has been involved with the world of automation for more than 30 years. He has published numerous specialist articles on the subject and organized workshops with different control systems from different manufacturers.

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Kahlert, Joerg

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Fields of Expertise
Electrical engineering, control engineering

Dr.-Ing. Jörg Kahlert heads an engineering office for software engineering and automation technology. He teaches the subjects “Control and Feedback Control Systems” and “Automation Technology” at the SRH University of Applied Sciences Hamm.

The field of control engineering will be introduced compact and practical. All topics covered in the book are explained using examples that are easy to understand with the accompanying software and can be used as a starting point for your own experiments. The topics can be used as a starting point for your own experiments. Jörg Kahlert has succeeded in loosening up the substance of the control technology, which is considered to be “dry” and very abstract, and to make it easy to understand.

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**Target Audience**  
Plant engineers, engineers at licensing authorities and testing authorities, planning engineers, students, utility network operators

**Fields of Expertise**  
Electrical power engineering

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**Dr. Bernd Michael Buchholz** is active with NTB Technoservice as a consultant, lecturer at universities and seminar leader at the VDE. He is the head of the expert group "Active Energy Networks" of the Energy Technology Association in the VDE and has managed several projects for grid integration of renewable energy producers. Michael Buchholz has led the development of the VDE study “Smart Distribution 2020”.

**Univ. Dr. Zbigniew A. Styczynski** is head of the chair of Electrical Networks and Alternative Electricity Sources of Otto von Guericke University Magdeburg. He is et al. in the VDE (V2) and FNN (LK-NMS) active and member of national and international committees.

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Fischer, Frank
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**Fields of Expertise**
Energy technology, renewable energies, wind energy

Prof. Dr.-Ing. Frank Fischer, born in 1965, studied general electrical engineering at the Bergische Universität Wuppertal. After doctorate in the field of fault diagnosis at limiting performance turbo-generators he worked in the wind industry for ten years. Since 2011 he has been a professor for the subject “Electrical Power Engineering” at the University of Applied Sciences Kempten.

In this book, wind energy plants are generally considered in their well known and today common construction with horizontal rotor axis and a rotor with three around its own axis (pitch axis) rotatable rotor blades, which is seen in the wind direction in front of the tower (windlass). It also deals exclusively with “Medium” (nominal power between 100 kW and 500 kW) and “Large” wind energy plants (rated power> 500 kW). Furthermore the focus is the system of electrical energy supply in Germany with the appropriate networks connection conditions, but of course, much can be transferred to other countries and other networks.

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Mahn, Ulrich/Klügl, Alexander

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**Target Audience** Supervisory bodies, specialists network operators, manager network operators, students

**Fields of Expertise** Energy law, energy economics

Dr.-Ing. Ulrich Mahn is regulatory manager at the Netze Duisburg GmbH and group regulation manager at the Stadtwerke Group Duisburg AG. He cooperates in the further development of regulation for Germany in committees of the Federal Association of Energy and Water Industries and the Association of Municipal Enterprises e.V. Dipl.-Ing., Dipl.-Wirtsch.-Ing. Alexander Klügl is a network access manager at Rheinische NETZ Gesellschaft mbH. He is responsible for implementing the legal requirements of electrical network access. In specialist committees of the Federal Association of the Energy and Water Industries e.V. (BDEW) he represents the company in the further development of market processes and standard load profiles.

In this new release, the requirements of grid access are explained in a way that is easy to understand. For understanding, only basic knowledge of the energy industry is required, as the basics are treated in detail. The extensive glossary explains all relevant terms and refers to further terms and relevant legal regulations. After reading, the reader is able to understand corporate decisions made by network operators, to follow current network access issues, and to understand complex texts such as regulations, regulatory decisions, and court decisions.

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Target Audience  Practitioners
Fields of Expertise  Plant engineering, electrical power engineering, grid operation, network technology

Dipl.-Ing. Andreas Grohs is active in the area of asset management “Medium Voltage” for a network operator and has many years of experience in overhead lines. He is active in standardization committees and author of numerous specialist publications.

Dirk Herweg works in the area of asset management quality and rule-setting at a network operator and has many years of experience in the field of overhead lines. He is active in standardization committees and author of numerous specialist publications.

This volume deals with the system technology of overhead lines of the distribution network with nominal voltages up to max. 45 kV and includes the low voltage and medium voltage overhead line networks. The focus is on the electricity supplier distribution-networks from the user’s point of view. Numerous explanations of terms and examples of calculation round off this practice oriented work.

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To be published in October 2019

Recommendations on the subject

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Micksch, Konrad

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Target Audience: Architects, Building Authority, builders, civil engineers, consultants, lecturers, engineers, investors, planner, project manager of construction projects, project managers, monitoring bodies, students, entrepreneurs

Fields of Expertise: Architecture, civil engineering, construction management, construction Technology and building technology

Dipl.-Ing. Konrad Micksch is a textbook author for construction and energy. He was owner of the engineering office bebecon in Berlin. He held lectures to renewable energy in industry and agriculture and held training of construction and project managers. Previously, he worked for many years as project coordinator and project manager in the construction of power and substations, in railway and bridge construction in Germany and abroad. Recently he served as Senior Project Manager for sports and social buildings.

This guide provides hands-on assistance with the planning, implementation and control of construction projects. It is addressed with its abundance of checklists, tables and overviews to construction project managers, architects, planners and civil engineers. In its short form, the book helps with quick access to the respective task solution. To emphasize is the extensive appendix, which is available in digital form as usual. It includes editable sample letters, checklists and forms, which can be flexibly adapted to the own requirements.

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Fields of Expertise
Refrigeration technology, supply engineering

Dipl.-Ing. Norbert Krug is Managing Director of IKET GmbH, before he was for many years the head of the refrigeration test centers at RWTÜV in Essen. He is the author of numerous books and publications and member of standards committees and specialist groups.

Dr.-Ing. Christian Hainbach is Technology Managing Director of IKET GmbH. He was a research assistant at the Institute for Applied Thermodynamics and Climate Technology and lecturer for heating, ventilation and refrigeration technology at the University of Essen. Since 1988 he has been a member of the refrigeration standards committees.

Even after more than 100 years on the market, this is and remains the “Paperback” a classic work basis and the standard work for engineers, technicians and professionals in refrigeration. It is a comprehensive reference book that presents both the applications of refrigeration technology and its practical applications. The 22nd Edition offers again a tailored trade up-to-date overview of standards, policies and regulations. The chapter “Laws and Regulations” has been completely revised.

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Ellwein, Christian

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**Fields of Expertise**
- IT security, refrigeration technology, ventilation technology

Dr. Christian Ellwein is Managing Director of a leading provider of electromechanical and electronic components for the mechanical and plant engineering. After his studies of Electronics and PhD, he was working in senior positions in the electronics industry. He is the author of numerous technical papers and had teaching assignments in the field of programming and sensor technology.

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Fields of Expertise
Air conditioning, refrigeration, ventilation, supply engineering

Dieter Schmidt teaches refrigeration professionals trainees at the vocational schools Springe. He is a member of the journeyman examination committee of the refrigeration plant guild Niedersachsen / Saxony-Anhalt.

Editor:
Dipl.-Ing. Norbert Krug is Managing Director of IKET GmbH, before he was many years the head of the refrigeration test centers at RWTV in Essen. He is author of numerous textbooks.
Dr.-Ing. Christian Hainbach is Managing Director Technology of IKET GmbH. He has been a member of the Refrigeration Technology Standards Committee since 1988 and was a lecturer in heating, ventilation and refrigeration technology at the University of Essen.

The informative “Lexicon Refrigeration” gives an overview as well about refrigeration, their applications and components as well over adjoining areas of air conditioning. In about 1,600 keywords, the author gives a compact and practical presentation of the theoretical fundamentals of refrigeration across the refrigerant to plant technology. Also for non-specialists well understandable!

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Pfluger, Rainer

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**Fields of Expertise**  Building technology, air conditioning technology, ventilation technology, home ventilation

Prof. Dr.-Ing. Rainer Pfluger is a research associate at Institute of Construction and Materials Science of the University Innsbruck. He was before employed at the Passive House Institute in Darmstadt.

Comfort ventilation, thus supply and exhaust air systems with heat recovery, is also enjoying increasing popularity in old buildings – and for good reason: In addition to the high indoor air quality and comfort, they ensure lasting freedom from building damage. This book facilitates the subsequent integration of heat recovery in existing buildings and shows new solutions and simplifications. Latest research and ventilation concepts are taken into account as well as innovative products that have been used in recent years specially developed for the renovation.

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Tale Yazdi, Georg
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Target Audience
Executing companies, authorities, operators of large kitchens, planners of large kitchens, experts, chimney sweep masters

Fields of Expertise
Air conditioning technology, ventilation technology

Dipl.-Ing Georg Tale-Yazdi is the owner of an engineering and expert office for ventilation and air conditioning technology. He is also the author of various specialist contributions, holds training courses and is active in various associations, expert committees and standards committees.

This new guidebook seamlessly follows the work of the same author “Ventilation of Commercial Kitchens: Basics, Calculations” and presents all components of commercial kitchens, such as cooker hoods, kitchen ventilation ceilings, aerosol separators and exhaust air purification systems in detail and provides valuable information for planning and design. Explanations round off the work regarding the planning of kitchen ventilation systems, the building regulations requirements and fire protection.

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Bellenberg, Klaus

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Fields of Expertise: Calculation, management

Klaus Bellenberg, after completing his studies at the University of Cologne, initially worked as a management assistant in a medium-sized textile company. His later main activity includes the consulting of craft companies in all matters of commercial and business management. The author was involved in setting up an academy as a lecturer and member of the board of examiners for business economists. As an experienced connoisseur of management problems in medium-sized companies, Klaus Bellenberg worked as a seminar leader at home and abroad and published numerous writings on business topics.

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Dr. Josef Kauer is President of “BIM World Munich” – Germany’s largest trade fair for BIM.

Prof. Dr. Hardy Lehmkühler teaches geo-informatics and information logistics at the Stuttgart University of Applied Sciences.

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