



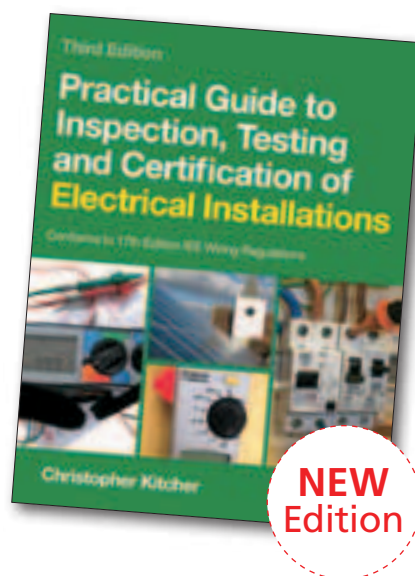
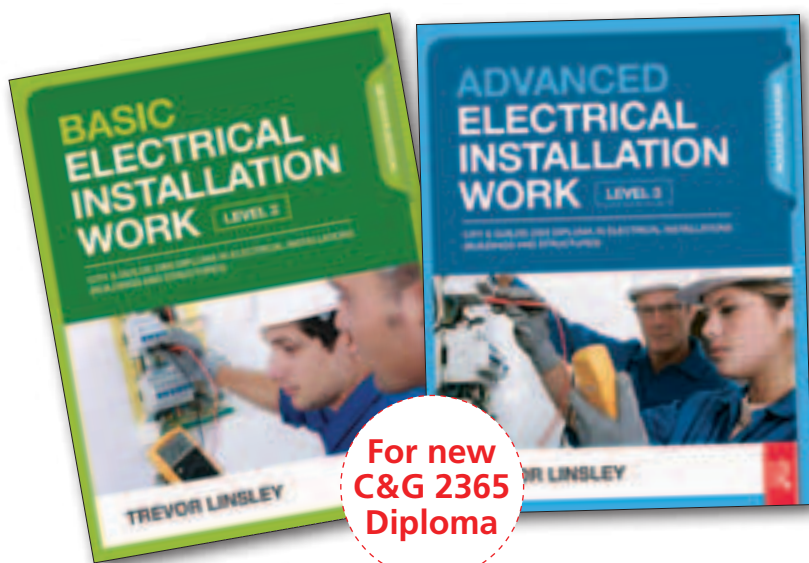
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Basic Electrical Installation Work

7TH Edition

Advanced Electrical Installation Work

7TH Edition

Trevor Linsley was formerly a Senior Lecturer at Blackpool and the Fylde College and Head of the NVQ Assessment Centre

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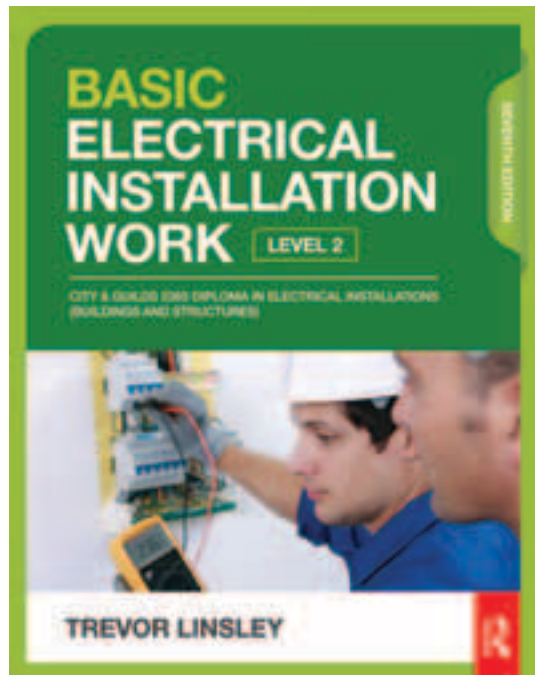
City and Guilds 2365 Diploma in Electrical Installations (Buildings and Structures) Level 2 and 3

Aligned with the 17th edition IET Wiring Regulations, incorporating amendment 1, these new editions have been fully updated to cover the new City & Guilds 2365 Diploma.

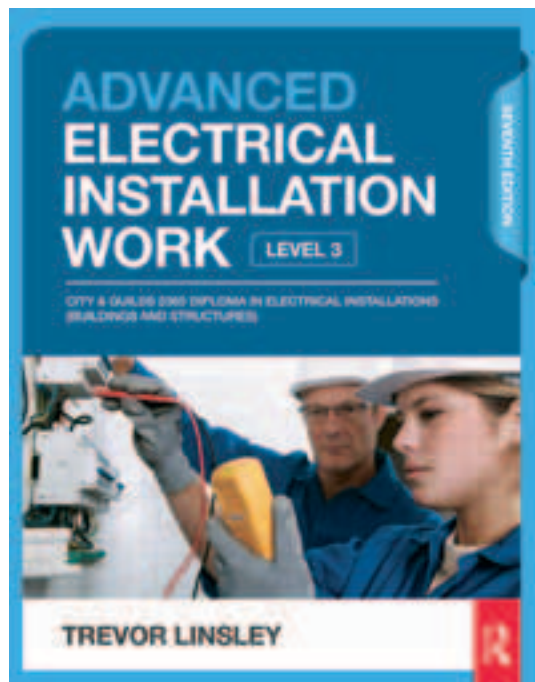
Written in an easy to follow style with each chapter of the book dedicated to a unit of the syllabus, they help learners master each topic.

End of chapter revision questions help to check understanding and consolidate key concepts learned in each chapter.

The books are supported with free material for students and lecturers.



Routledge | April 2013 | 384 pages
Pb ISBN: 978-0-415-82576-4: £22.99 \$39.95
www.routledge.com/9780415825764



Routledge | May 2013 | 360 pages
Pb ISBN: 978-0-415-82578-8: £22.99 \$39.95
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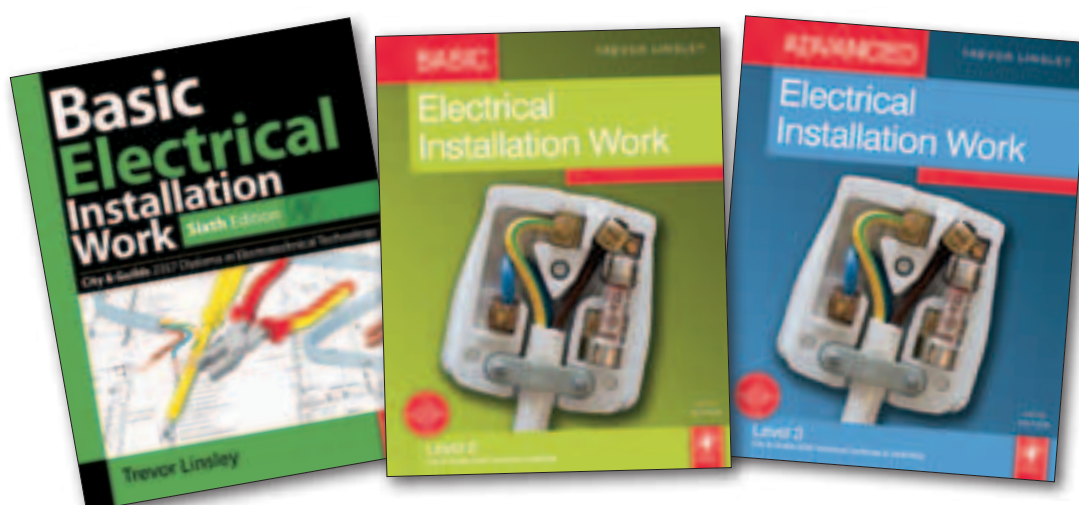
– Carl Tovey, Solihull College

“ Very well presented and easy to read material, suitable for old and new qualification. ”

– Gurdev Banwait, Amersham and Wycombe College

“ The books are easy to follow with clear diagrams, good explanations of topics in the syllabus and information is in the ideal order for revision purposes. ”

– Darran Knott, Lowestoft College



An Introduction to Electrical Science

Adrian Waygood, an experienced lecturer and instructional designer

Suitable for the following course:

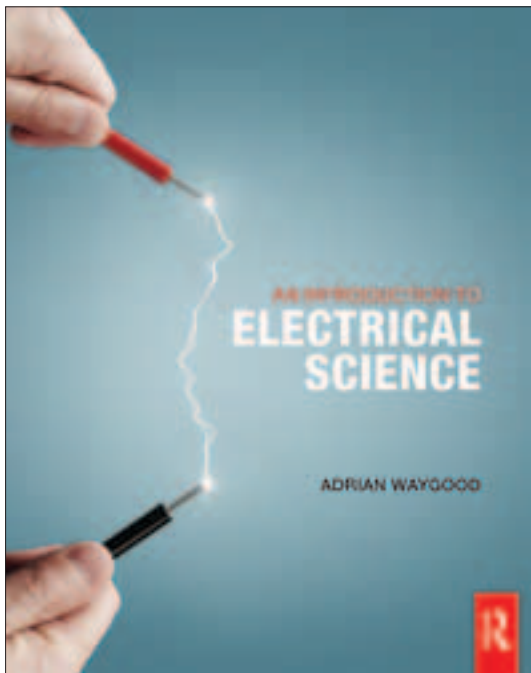
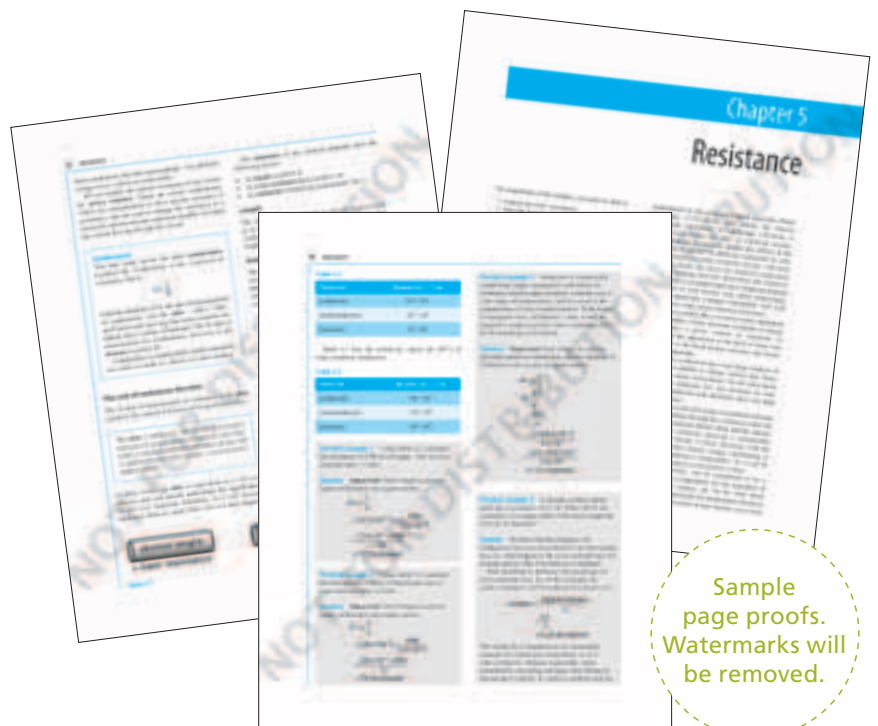
City & Guilds 2365 Diploma and 2357 Certificate and equivalent qualifications from EAL

Uses a context led approach to explain electrical theory and practice

By adding context to the principles of electrical science the topics become easier to both understand and remember, providing a grounding in the subject that will remain with students for life.

A wealth of examples, images and diagrams help students master difficult concepts. The book also has a companion site with an extra chapter, interactive multiple choice quizzes for each chapter and more at www.routledge.com/cw/waygood

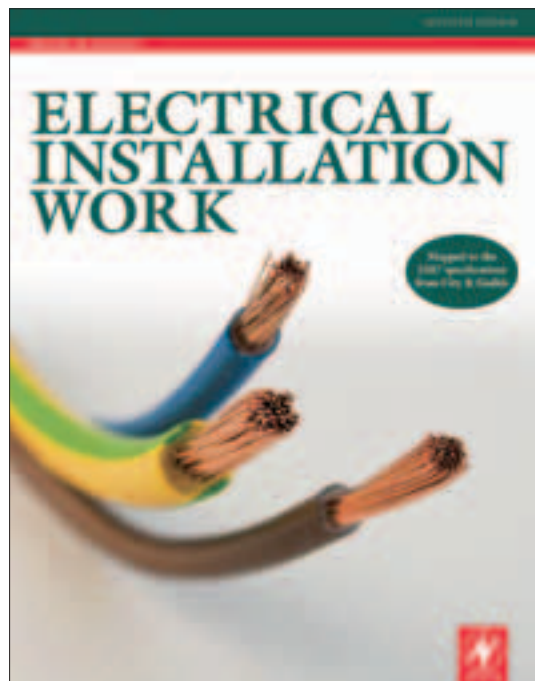
- › Fully aligned to the 17th edition of the wiring regulations
- › Free access to companion website material, including multiple-choice tests and an extra chapter
- › Two-colour layout helps navigation and highlights key points



Routledge | April 2013 | 370 pages
 Pb ISBN: 978-0-415-81002-9: **£29.99 \$44.95**
www.routledge.com/9780415810029

Table of Contents:

1. SI System of Measurements
2. Electron Theory of Electricity
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8. Ohm's Law of Constant Proportionality
9. Series, Parallel, and Series-Parallel Circuits
10. Cells and Batteries
11. Internal Resistance of Voltage Sources
12. Energy, Work, Heat, and Power
13. Magnetism
14. Electromagnetism
15. Magnetic Circuits
16. Electromagnetic Induction
17. Capacitors and Capacitance
18. Introduction to Alternating Current
19. Series Alternating Current Circuits
20. Power in Alternating Current Circuits
21. Parallel Alternating Current Circuits
22. Power-Factor Improvement
23. Three-Phase A.C. Systems



Electrical Installation Work

7TH Edition

Brian Scaddan, Brian Scaddan Associates, Training Consultants, UK

Suitable for the following course:

City & Guilds 2365 Diploma and 2357 Certificate and equivalent qualifications from EAL

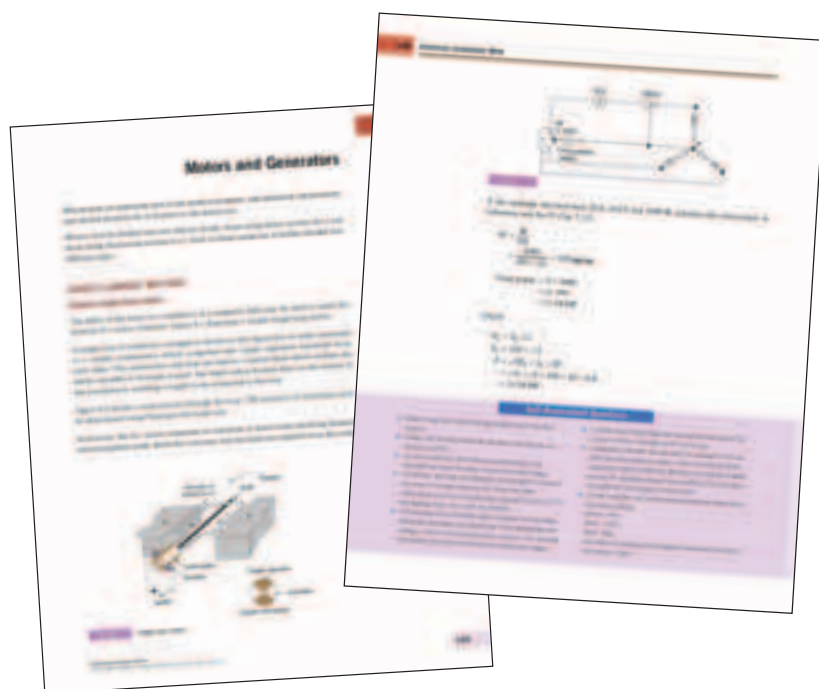
Covers the subjects at levels 2 and 3 in one concise book

Brian Scaddans' unique text is written for all trainees who want to understand not only how, but why electrical installations are designed, tested and installed in particular ways. Structured by topic rather than by specification, the logical progression makes this an ideal text for students who are independent learners as well as a handy reference source for qualified electricians.

Routledge | March 2011 | 474 pages
 Pb ISBN: 978-0-080-96981-7: **£29.99 \$49.95**
www.routledge.com/9780080969817

Table of Contents:

1. Basic Information and Calculations
2. Electricity
3. Resistance, Current and Voltage, Power and Energy
4. Electromagnetism
5. Capacitors and Capacitance
6. Resistance, Inductance and Capacitance in Installation Work
7. Three-Phase Circuits
8. Motors and Generators
9. Cells and Batteries
10. Illumination and ELV Lighting
11. Electricity, the Environment and the Community
12. Health and Safety
13. The Electrical Contracting Industry
14. Installation Materials and Tools
15. Installation Circuits and Systems
16. Earthing and Bonding
17. Protection
18. Circuit and Design
19. Testing
20. Basic Electronics Technology



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Electrical Installation Calculations Series

A.J. Watkins and Christopher Kitcher

Covers the mathematics required at Levels 2 and 3

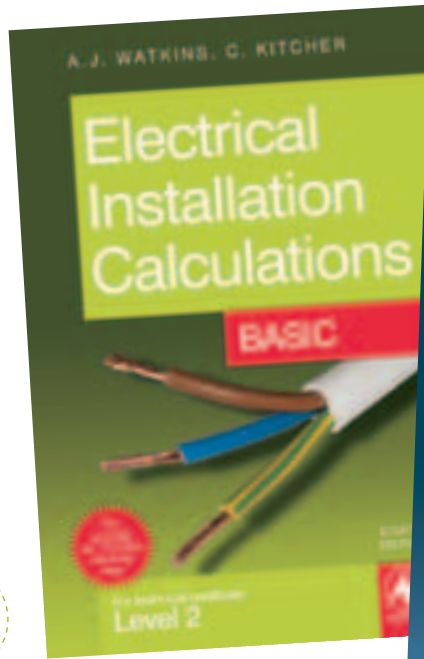
Electrical Installation Calculations: Basic

Routledge | March 2009 | 192 pages

Pb ISBN: 978-1-856-17665-1: **£11.99 \$24.95**

www.routledge.com/9781856176651

8TH
Edition



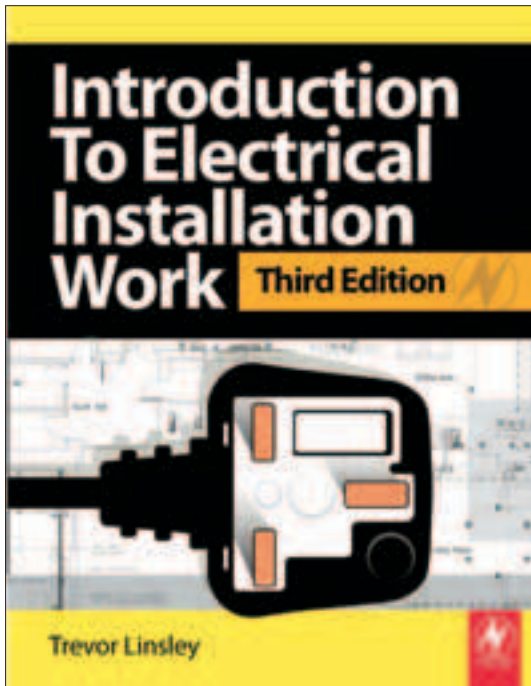
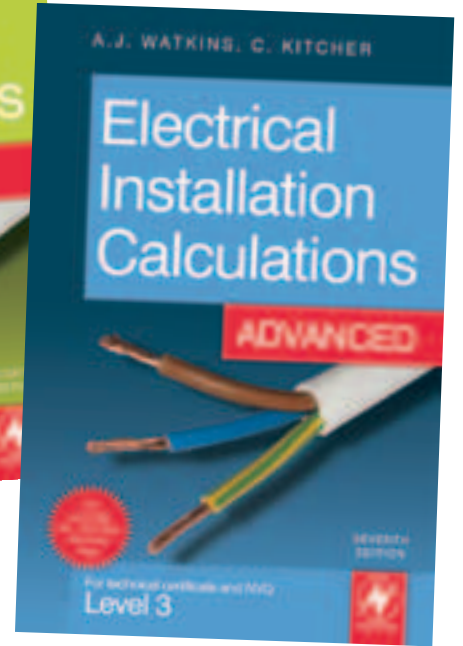
Electrical Installation Calculations: Advanced

Routledge | March 2009 | 224 pages

ISBN: 978-1-856-17664-4: **£11.99 \$24.95**

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7TH
Edition



Introduction to Electrical Installation Work

3RD
Edition

Trevor Linsley was formerly a Senior Lecturer at Blackpool and the Fylde College and Head of the NVQ Assessment Centre

Suitable for the following course:

City & Guilds 2357 Certificate and 2365 Diploma and related construction courses which require a basic knowledge of electrical installation

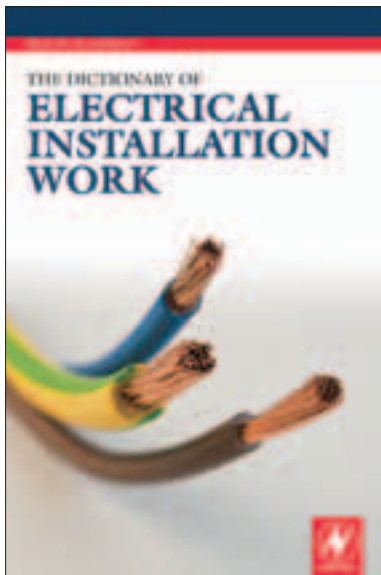
A first book of electrical installation practice — all the key concepts and practical know-how, but without pages of theory and mathematics

Written for the beginner, this is a simple and clear introduction to the subject for any student on first year electrical courses.

Routledge | June 2011 | 296 pages

ISBN: 978-0-080-96940-4: **£19.99 \$33.95**

www.routledge.com/9780080969404



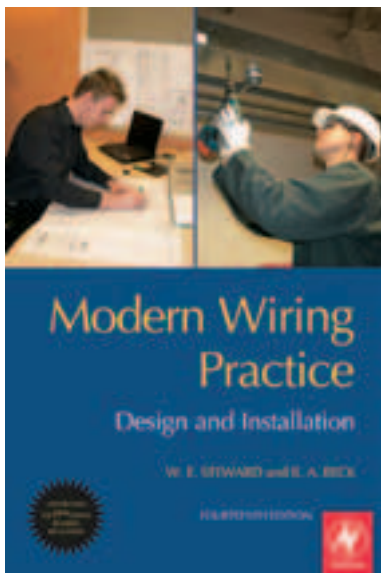
The Dictionary of Electrical Installation Work

Brian Scaddan, Brian Scaddan Associates, Training Consultants, UK

This is an indispensable resource for students enrolled in NVQ Technical Certificates, City & Guilds Diplomas and for many others working and studying in the construction industry, making it an ideal companion to any electrical installations textbook.

- › Diagrams and illustrations are in full-colour to make explanations easier to understand
- › Ideal for students taking City & Guilds 2365 and 2394/5 as a companion
- › Edited to contain only relevant terms for the electrical installation industry
- › Up-to-date for the 17th Edition IEE Wiring Regulations.

Routledge | February 2011 | 152 pages
 Pb ISBN: 978-0-080-96937-4: **£12.99 \$21.95**
www.routledge.com/9780080969374



Modern Wiring Practice

Design and Installation

W.E. Steward, T.A. Stubbs

Introducing the fundamentals of design and installation with a minimum of mathematics, this book is an essential purchase for all students on electrical installation courses, such as the City & Guilds 2365 Diploma in Electrotechnical Installations, and NVQs from City & Guilds (including 2394/5 and 2382 awards), as well as trainees in industry undertaking Apprenticeships and Advanced Apprenticeships.

Routledge | September 2009 | 352 pages
 Pb ISBN: 978-1-856-17692-7: **£24.99 \$50.95**
www.routledge.com/9781856176927

14TH
Edition



Wiring Regulations in Brief

A complete guide to the requirements of the 17th Edition of the IET Wiring Regulations, BS 7671 and Part P of the Building Regulations

Ray Tricker

This handy guide provides an on-the-job reference source for Electricians, Designers, Service Engineers, Inspectors, Builders, Students, and DIY enthusiasts.

The requirements of the regulations, and of related standards, are presented in an informal, easy-to-read style that strips away confusion. Packed with useful hints and tips, and highlighting the most important or mandatory requirements, this book is a concise reference to all aspects of the 17th edition IET Wiring Regulations.

Routledge | August 2012 | 640 pages
 Pb ISBN: 978-0-415-52687-6: **£24.99 | \$44.95**
www.routledge.com/9780415526876

3RD
Edition

Practical Guide to Inspection, Testing and Certification of Electrical Installations

3RD
Edition

Christopher Kitcher, Electrical Installations lecturer, Central Sussex College, UK

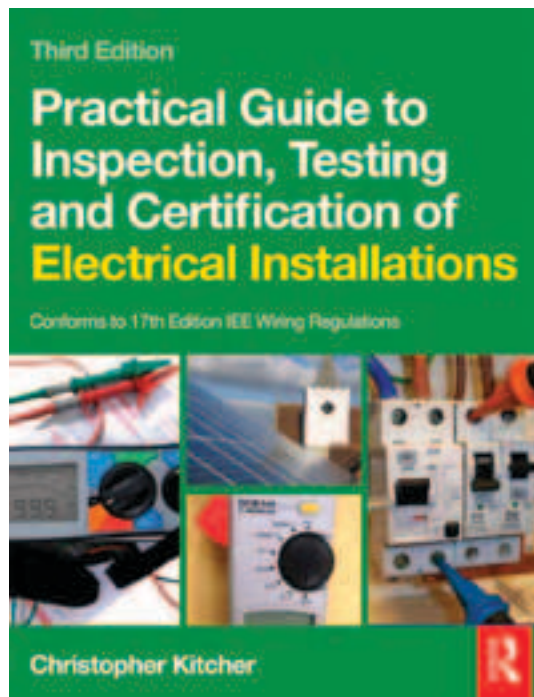
Suitable for the following courses:

City & Guilds 2394, 2395 and Part P courses

“This book is great, having ‘real world’ pictures to help you understand the more complex subject material. If you are in the game or even learning at college don’t buy anything else....” — *Customer review*

This book answers all your questions on the basics of inspection and testing with clear reference to the latest legal requirements. Chris Kitcher not only tells you what tests are needed but also describes all of them in a step-by-step manner with the help of real-world colour photos. Sample forms show how to verify recorded test results and how to certify and fill in the required documentation. The book is also packed with handy advice on how to avoid and solve common problems encountered on the job.

- › Step-by-step illustrations give the practical knowledge needed that is lacking from the official guidance
- › Clear simple language and minimal jargon



Routledge | April 2013 | 248 pages

Pb ISBN: 978-0-080-96907-7: **£19.99 \$33.95**

www.routledge.com/9780080969077

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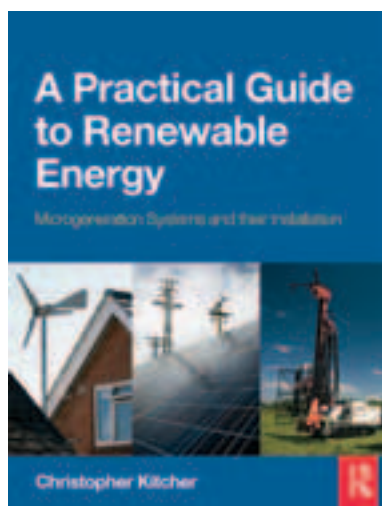
1. Inspection and testing of electrical installations
2. Types of certification required for inspection and testing of installations
3. Testing of electrical installations
4. Completion of test certificates
5. Safety in electrical testing

Supported with YouTube videos

Instructional videos are available for you and your students at www.youtube.com/user/RoutledgeElectrical

Matched to the tests in the book and presented by Christopher Kitcher, they demonstrate equipment and procedures that all electricians need to learn.





Routledge | December 2011 | 158 pages
Pb ISBN: 978-0-080-97064-6: **£19.99 \$33.95**
www.routledge.com/9780080970646

Table of Contents:

Chapter 1: Solar Photovoltaic systems

Chapter 2: Solar thermal heating

Chapter 3: Domestic wind turbines

Chapter 4: Heat pumps

Chapter 5: Combined heat and power units (CHPs)

A Practical Guide to Renewable Energy

Microgeneration Systems and their Installation

Christopher Kitcher, Central Sussex College

Suitable for the following courses:

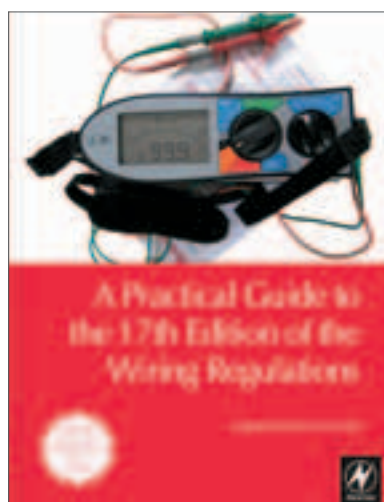
Levels 2 and 3 of City & Guilds 2399 Award in Environmental Technologies

Cover all the latest renewable energy technologies in one concise book

The practical focus in this book will give all those in the building industry confidence to pass micro-generation exams, discuss the subject with clients and work on all new and emerging renewable energy systems. Designed to make learning easier, this book contains:

- › Step-by-step instructions in how to fit and test renewable energy systems
- › Clear diagrams, photos and flow charts that demonstrate core principles
- › Associated online questions and answers that enable you to test your knowledge and further your understanding of the subject

As a student or professional this textbook will provide the information needed to pass your course and is also an ideal onsite reference. Readers will be able to access a free companion website where they will find related videos, questions and answers and links to further information on renewable energy.



Routledge | August 2010 | 224 pages
Pb ISBN: 978-0-080-96560-4: **£17.99 \$29.95**
www.routledge.com/9780080965604

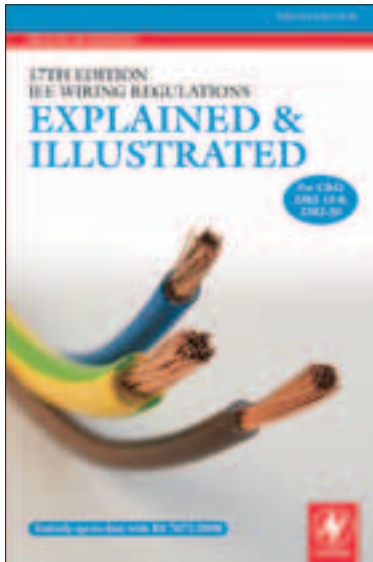
A Practical Guide to the 17th Edition of the Wiring Regulations

Christopher Kitcher, Central Sussex College

Suitable for the following courses:

All Level 2 and Level 3 courses from City & Guilds and EAL

This book presents the Wiring Regulations in plain, easy to understand language, providing a clear interpretation of the regulations, explaining them in a sensible and step-by-step manner, putting them in the context that most students and professionals will see them when they come to work with the regulations.



17th Edition IET Wiring Regulations

Explained and Illustrated

Brian Scaddan

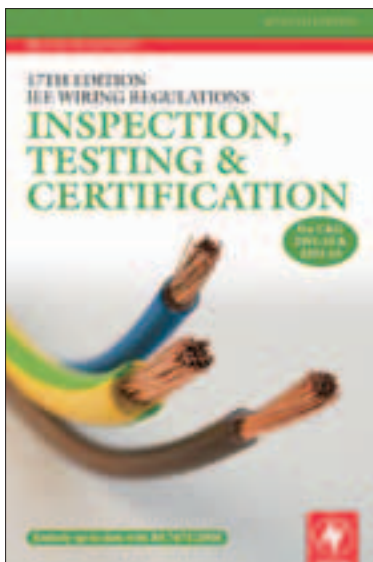
9TH
Edition

Suitable for the following course: C&G 2382-12

The Wiring Regulations are a long and complicated publication and there is always a huge demand for books explaining what the requirements mean in actual working practice.

This popular guide has been brought fully up-to-date with the new regulations to enable safe and efficient compliance. It focuses on common misconceptions in the application of the Wiring Regulations and outlines the correct procedures to follow and those to avoid. The book fully covers the new City & Guilds 2382 syllabus and is an affordable refresher and revision guide for the thousands of students who take this qualification annually.

Routledge | May 2011 | 146 pages
Pb ISBN: 978-0-080-96917-6: **£12.99 \$21.95**
www.routledge.com/9780080969176



17th Edition IET Wiring Regulations

Inspection, Testing and Certification

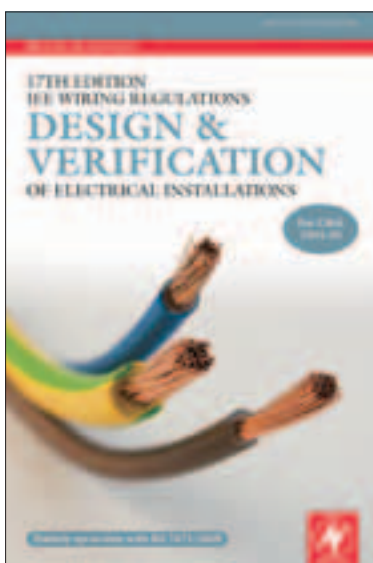
Brian Scaddan

7TH
Edition

Suitable for the following course: C&G 2394 & 2395

This popular guide clarifies the requirements for inspection and testing, explaining in clear language those parts of the regulations that most need simplifying. In addition to the usual descriptive and diagrammatic test methods that are required, explanations of the theory and reasoning behind test procedures are given, together with useful tables for test results comparison. The book also provides essential information on the completion of electrical installation certificates, with a step-by-step guide to the entries that need to be made and where to source data.

Routledge | May 2011 | 104 pages
Pb ISBN: 978-0-080-96610-6: **£12.99 \$21.95**
www.routledge.com/9780080966106



17th Edition IET Wiring Regulations

Design and Verification of Electrical Installations

Brian Scaddan

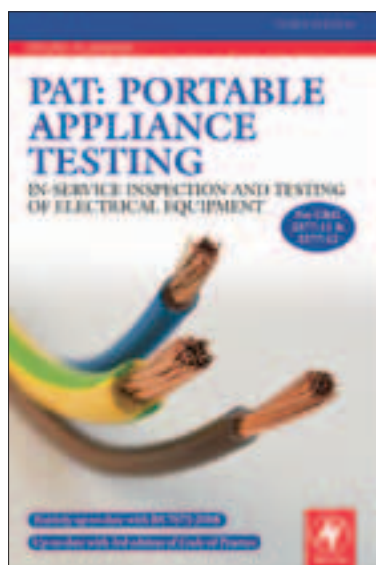
8TH
Edition

Suitable for the following course: C&G 2394, 2395 and 2396

This popular guide provides an understanding of basic design criteria and calculations, along with current inspection and testing requirements and explains how to meet the requirements of the IEE Wiring Regulations.

The book explains in clear language those parts of the regulations that most need simplifying. There are common misconceptions regarding bonding, voltages, disconnection times and sizes of earthing conductors. This book clarifies the requirements and outlines the correct procedures to follow.

Routledge | October 2012 | 132 pages
Pb ISBN: 978-0-415-53080-4: **£12.99 \$21.95**
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PAT: Portable Appliance Testing

In-Service Inspection and Testing of Electrical Equipment

Brian Scaddan

3RD
Edition

Suitable for the following course: C&G 2377-22 and 32

The Electricity at Work Regulations 1989 require any electrical system to be constructed, maintained and used in such a manner as to prevent danger. This means that inspection and testing of systems, including portable appliances, is needed in order to determine if maintenance is required. This book explains in clear language what needs to be done and includes expert advice on legislation as well as actual testing. It is an affordable and handy reference for electricians who administer PAT.

Routledge | May 2011 | 70 pages
Pb ISBN: 978-0-080-96919-0: £12.99 \$21.95

www.routledge.com/9780080969190



17th Edition IET Wiring Regulations

Wiring Systems and Fault Finding

Brian Scaddan

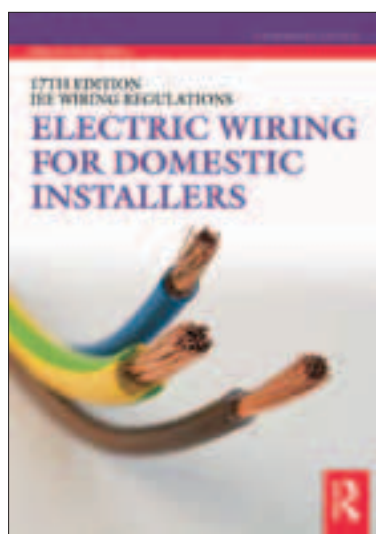
5TH
Edition

This book deals with an area of practice that many students and non-electricians find particularly challenging. It explains how to interpret circuit diagrams, wiring systems, and outlines the principles of testing before explaining how to apply this knowledge to fault finding in electrical circuits.

A handy pocket guide for anybody that needs to be able to trace faults in circuits, whether in domestic, commercial or industrial settings, this book will be extremely useful to electricians, plumbers, heating engineers and intruder alarm installers.

Routledge | April 2012 | 128 pages
Pb ISBN: 978-0-415-52210-6: £12.99 \$21.95

www.routledge.com/9780415522106



17th Edition IET Wiring Regulations

Electric Wiring for Domestic Installers

Brian Scaddan

14TH
Edition

This book has for many years been the standard guide to the practical aspects of domestic electrical wiring. It explains how to carry out work safely and correctly in a step-by-step manner.

Essential reading for anyone obtaining a Domestic Installer Scheme Qualification which relates to Part P of the Building Regulations, this title also acts as a handy pocket guide to best practice for electricians. Although not intended as a DIY manual, non-qualified persons will also find this book useful reading.

Routledge | April 2012 | 160 pages
Pb ISBN: 978-0-415-52209-0: £12.99 \$21.95

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