1. Record Nr. UNINA9910829891403321

Autore	Atkinson Bill
Titolo	Electrical installation designs [[electronic resource] /] / Bill B. Atkinson, Roger Lovegrove, Gary Gundry
Pubbl/distr/stampa	Chichester, West Sussex ; ; Hoboken, : John Wiley & Sons, 2013
ISBN	1-118-47778-2 1-299-18815-X 1-118-47775-8 1-118-47776-6
Edizione	[4th ed.]
Descrizione fisica	1 online resource (271 p.)
Altri autori (Persone)	LovegroveRoger GundryGary
Disciplina	621.319/24 621.31924
Soggetti	Electric wiring, Interior Electrical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Electrical Installation Designs; Contents; About the Authors; Preface to the Fourth Edition; Acknowledgements; 1 Introduction; 1.1 Layout of chapters; 1.2 Wiring regulations; 1.3 Terminology; 1.4 Competence and responsibility; 1.5 Procedures; 1.5.1 Design; 1.5.2 Installation; 1.6 Inspection and test; 1.7 Completion; 1.8 Working methods and materials; 1.9 Operatives; 1.10 Materials; 1.11 Amendments to BS 7671: 2008; 1.12 Voltages; 1.13 Voltage drop; 2 Three Bedroom House; 2.1 The bare minimum; 2.2 Standards; 2.2.1 National House Building Council (NHBC); 2.2.2 Relevant wiring regulations 2.3 Building regulations2.3.1 Smoke detectors; 2.4 Load assessment; 2.5 A typical domestic supply; 2.6 Project specification; 2.7 Wiring systems and cable sizes; 2.8 Lighting; 2.9 13 A socket-outlets; 2.10 Cable sizes; 2.11 Circuit protection; 2.11.1 Rewireable fuses; 2.11.2 Cartridge fuses; 2.11.3 Circuit-breakers (cb); 2.12 Additional protection for socket-outlets; 2.13 Arrangement of circuits; 2.13.1 Residual current protection; 2.13.2 Circuit-breakers (cb); 2.14 Arrangement of consumer unit; 2.15 Main switch; 2.16 Earthing and

bonding; 2.17 Gas services bonding and external meters
2.18 Supplementary bonding3 A Block of Retirement Flatlets; 3.1 Two schemes; 3.2 Early considerations; 3.2.1 Metering and distribution; 3.3 Other interested parties; 3.4 Building details; 3.4.1 Construction; 3.5 Part 1 - Flats; 3.5.1 Mains distribution; 3.5.2 Electrical requirements in flats; 3.5.3 Load assessment and maximum demand; 3.5.4 Wiring system; 3.5.5 Wiring hints; 3.5.6 Wiring in false ceilings; 3.5.7 Wiring in roof space; 3.5.8 Cable sizes; 3.5.9 Arrangement of circuits; 3.5.10 Consumer unit; 3.5.11 Earthing and bonding; 3.5.12 Earthing terminal; 3.5.13 Bonding
3.6 Part 2 - Landlord's areas3.6.1 Meter cupboard; 3.6.2 Supplies to flats; 3.6.3 Landlord's electrical requirements; 3.6.4 Diversity; 3.6.5 Lighting; 3.6.6 Socket-outlets; 3.6.7 Other equipment; 3.6.8 Total load; 3.6.9 Cable sizes and circuitry; 3.6.10 Lighting; 3.6.11 Socket-outlets; 3.6.12 Other equipment; 3.6.13 Distribution board; 3.6.14 Residual current protection; 3.6.15 Switchgear; 3.6.16 Switching; 3.6.17 Wiring; 3.6.18 Earthing; 3.6.19 Emergency systems; 4 Overcurrent Protection; 4.1 Overload; 4.2 Overload protection; 4.3 Overload protective devices; 4.3.1 Rewirable fuses
4.3.2 High Breaking Capacity (HBC) fuses4.3.3 Circuit-breakers; 4.3.4 The 'type' of circuit-breaker; 4.4 Fault current; 4.5 Fault Current Protection; 4.6 Omission of fault current protection; 4.7 Short-circuit rating; 4.8 Disconnection times; 4.9 Earth loop impedance; 4.10 Summary of cb specification; 4.11 Conclusion; 5 An Architect's Office; 5.1 Other interested parties; 5.2 Building structure and finishes; 5.3 Electrical requirements; 5.3.1 Loading and diversity; 5.3.2 Storage heaters; 5.3.3 Print machine; 5.3.4 Socket-outlets; 5.3.5 Total load; 5.3.6 Wiring system; 5.4 Skirting system
5.5 Underfloor system

Sommario/riassunto

A practical and highly popular guide for electrical contractors of small installations, now fully revised in accordance with the latest wiring regulations The book is a clearly written practical guide on how to design and complete a range of electrical installation projects in a competitive manner, while ensuring full compliance with the new Wiring Regulations (updated late 2008). The updated regulations introduced changes in terminology, such as 'basic' and 'fault protection', and also changed the regulation numbers. This new edition reflects these changes. It discusses new sections