Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry. Roger Greeno is a well-known author of construction texts. He has extensive practical and consultancy experience in the industry, in addition to lecturing at several colleges of further and higher education. You can build on this foundation. Whether construction is your livelihood or you're just planning a home addition, you need to know the latest about materials, methods, and more. From locating the structure on the site to installing roof shingles, this book helps you make responsible decisions about every stage of building construction. Fully updated with information about available resources, new materials, and recent code changes, it helps you build cost-effective, energy-efficient structures with confidence. The emphasis is on the why of construction.

Chapter 1, "Location of Structure on Site," deals with subjects rarely treated in books on residential construction: corner lots, non-conforming (grandfathered) lots, covenants, and how these affect the location of a house on a lot. Zoning and setbacks are also covered.

Chapter 3, "Foundations," deals with the foundational aspects of building construction. It covers topics such as footings,桩基, and the importance of proper foundation design. New materials and methods are discussed, along with recent code changes that affect foundation construction.

Chapter 5, "Reinforcement," focuses on the use of reinforcement materials in concrete structures. It explains the importance of reinforcement in preventing cracking and spalling, and how to properly install it.

Chapter 11, "Walling," covers the construction of walls, including materials, methods, and codes. It also includes case studies of wall failures and corrective measures.

Chapter 13, "Cladding," discusses the various types of cladding materials and their installation. It covers metal, stone, and other materials commonly used in building facades.

Chapter 15, "Roofing," provides comprehensive guidance on the design and construction of roofs. It covers materials, methods, and codes, and includes case studies of past roofing failures.

Chapter 21, "Insulation," deals with the importance of insulation in building construction. It covers various types of insulation materials and their installation techniques.

Chapter 23, "Ventilation," explains the role of ventilation in building construction. It covers the importance of proper ventilation and the use of fans, vents, and other ventilation systems.

Chapter 25, "Sanitation," covers the design and construction of sanitation systems in buildings. It includes information on plumbing, waste disposal, and ventilation of sanitary systems.

Chapter 27, "Building Services," discusses the design and construction of building services, including electrical, mechanical, and HVAC systems.

Chapter 31, "Building Control," explains the role of building control in ensuring safety and compliance. It covers the responsibilities of building control officers and the procedures involved in building control.