



# Building Services Engineering

By David V. Chadderton

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Engineering services within buildings account for ongoing energy use, greenhouse gas contribution and life safety provisions. This fully updated sixth edition of David Chadderton's leading textbook is the perfect preparation for those intending to enter this increasingly important field.

Chapters addressing heating, climate change, air conditioning, transportation systems, water, gas, electricity, drainage and room acoustics cover all the key responsibilities of the building services engineer. As well as introductory material and the underpinning theory, practical guidance is provided in the form of sample calculations and spreadsheets.

New material includes:

- trends and recent applications in lowering the energy use by mechanical and electrical services systems, heating, cooling and lighting of buildings
- case studies modelled from post-occupancy reports to provide realistic discussion topics
- examples of the use of photovoltaic solar panels, chilled beams, under floor air distribution, labyrinths, ground-sourced heat pumps, district heating and cooling, energy performance certificates, energy auditing and wind turbines
- outlines of the concepts of global warming, carbon trading and zero carbon buildings.
- exercises in each chapter and online self-study questions.

A significantly expanded companion site offers over 1,000 self-test questions, powerpoint slides for lecturers, and an instructors' manual, enabling the rapid generation of lectures, assignments, and tests. This is the ideal textbook for students of building services engineering, as well as a comprehensive guide for those about to start work.

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## **Building Services Engineering** By David V. Chadderton Bibliography

- Sales Rank: #2358199 in Books
- Brand: Brand: Routledge
- Published on: 2013-01-12
- Released on: 2012-11-16
- Original language: English
- Number of items: 1
- Dimensions: 9.69" h x .94" w x 6.85" l, 1.65 pounds
- Binding: Paperback
- 416 pages

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About the Author

**David V. Chadderton** was formerly a Principal Lecturer in building services engineering at Southampton Solent University, a Senior Lecturer at Oxford Brookes University, and lectured in Melbourne and Ballarat. He also spent time as a self-employed energy auditor, and an energy performance contracting engineer in Melbourne before retiring recently.

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