



# Building Services Design for Energy Efficient Buildings

*Paul Tymkow, Savvas Tassou, Maria Kolokotroni, Hussam Jouhara*

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The role and influence of building services engineers is undergoing rapid change and is pivotal to achieving low-carbon buildings. However, textbooks in the field have largely focused on the detailed technicalities of HVAC systems, often with little wider context. This book addresses that need by embracing a contemporary understanding of energy efficiency imperatives, together with a strategic approach to the key design issues impacting upon carbon performance, in a concise manner.

The key conceptual design issues for planning the principal systems that influence energy efficiency are examined in detail. In addition, the following issues are addressed in turn:

Background issues for sustainability and the design process

Developing a strategic approach to energy-efficient design

How to undertake load assessments

System comparison and selection

Space planning for services

Post-occupancy evaluation of completed building services

In order to deliver sustainable buildings, a new perspective is needed amongst building and services engineering designers, from the outset of the conceptual design stage and throughout the whole design process. In this book, students and practitioners alike will find the ideal introduction to this new approach.

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