



Environmental Design of Urban Buildings: An Integrated Approach

By Mat Santamouris

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The importance of an integrated approach in urban design is becoming increasingly apparent. This book explains how to overcome related challenges in environmental design of urban buildings and offers guidance on the use of new materials and techniques and the integration of new philosophies.

Supported by the EC's SAVE 13 programme, Environmental Design of Urban Buildings includes contributions from experts at the National and Kapodistrian University of Athens, Greece, the Hellenic Open University, Greece, Cambridge Architectural Research, UK and REHVA/University of Ljubljana, Slovenia.

A free CD-ROM containing multi-media software tools and climatic data accompanies the book.

CONTENTS

Environmental Urban Design * Architectural Design, Passive Environmental and Building Engineering Systems * Environmental Issues of Building Design * Sustainable Design, Construction and Operation * Intelligent Controls and Advanced Building Management Systems * Urban Building Climatology * Heat and Mass Transfer Phenomena in Urban Buildings * Applied Lighting Technologies for Urban Buildings * Case Studies * Guidelines to Integrate Energy Conservation * Indoor Air Quality * Applied Energy and Resources Management in the Urban Environment * Economic Methodologies * Integrated Building Design * Bibliography, Index

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Editorial Review

About the Author

Mat Santamouris, a recognized expert in building physics and the application of solar and energy-efficiency technologies, is Associate Professor in the Physics Department, University of Athens, Greece, and Visiting Professor at London Metropolitan University. He has had many books published in this field and is on the editorial board for five journals.

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