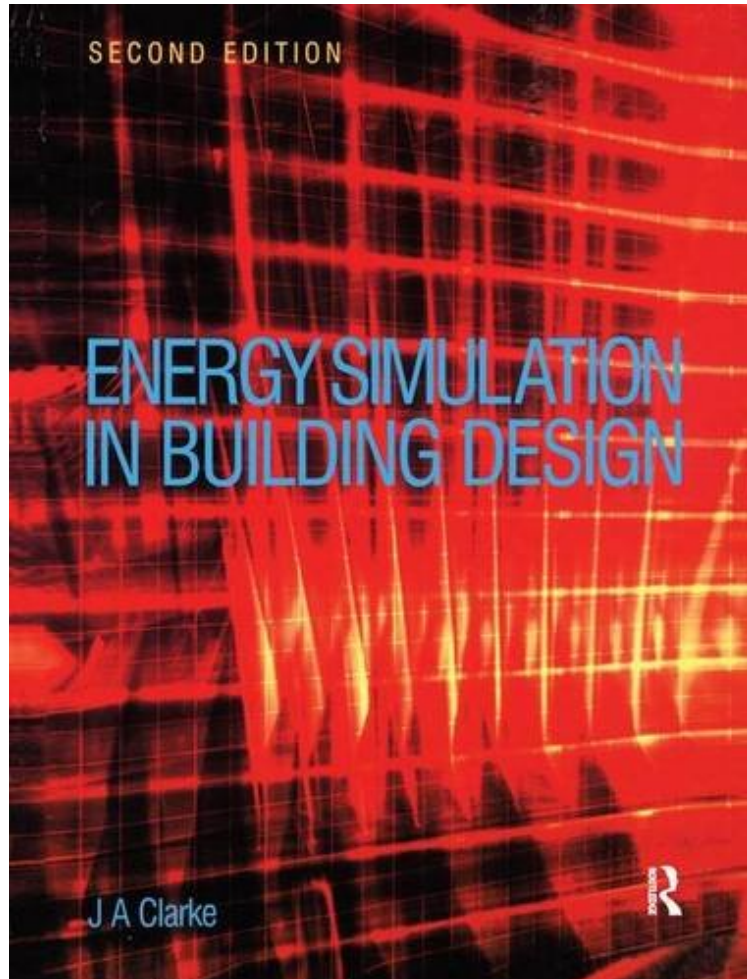


(Free read ebook) Energy Simulation in Building Design

Energy Simulation in Building Design

Joseph Clarke

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Since the appearance of the first edition of 'Energy Simulation in Building Design', the use of computer-based appraisal tools to solve energy design problems within buildings has grown rapidly. A leading figure in this field, Professor Joseph Clarke has updated his book throughout to reflect these latest developments. The book now includes material on combined thermal/lighting and CFD simulation, advanced glazings, indoor air quality and photovoltaic components. This thorough revision means that the book remains the key text on simulation for architects, building engineering consultants and students of building engineering and environmental design of buildings. The book's purpose is to help architects, mechanical environmental engineers and energy facility managers to understand and

apply the emerging computer methods for options appraisal at the individual building, estate, city, region and national levels. This is achieved by interspersing theoretical derivations relating to simulation within an evolving description of the built environment as a complex system. The premise is that the effective application of any simulation tool requires a thorough understanding of the domain it addresses.

'I use the first edition and look forward to using the update'
'Dr F Winkelman, Lawrence Berkeley Laboratory, Berkeley, USA'
There is certainly a need for comprehensive guides to the practice of building simulation. Since the publication of the first edition of this book there has been growth in the community of simulation users.'
'Chris Hancock, Architect.