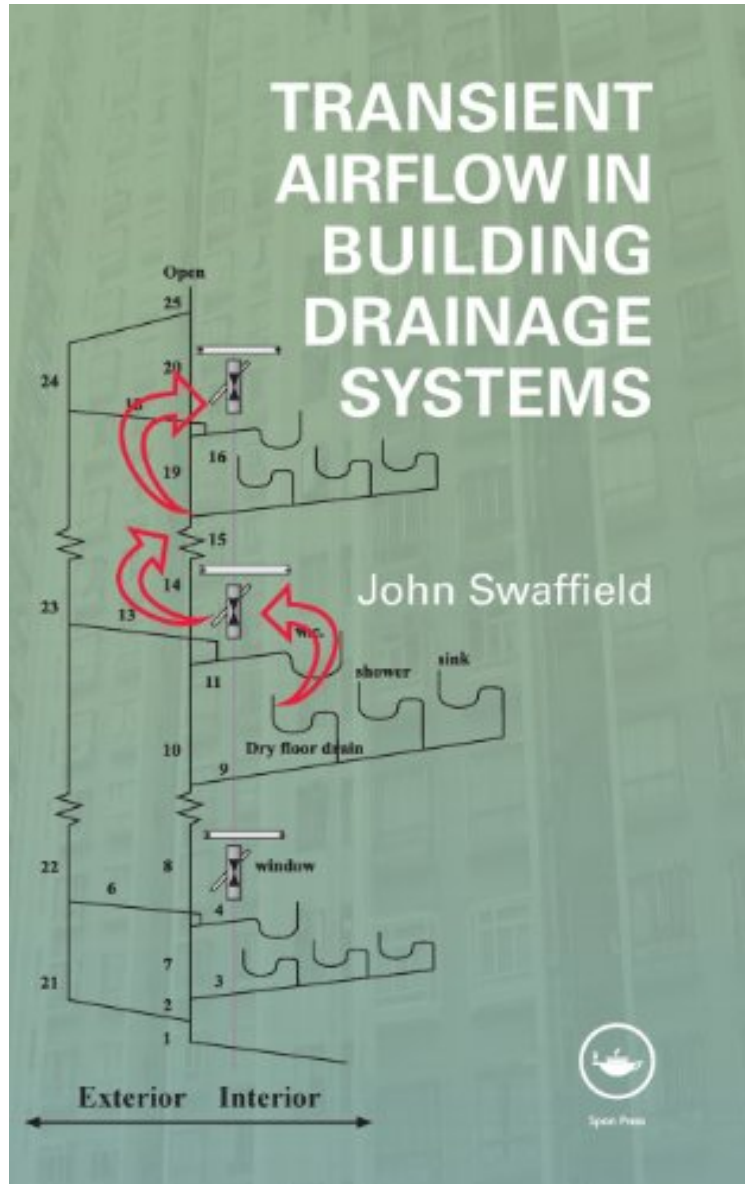


Transient Airflow in Building Drainage Systems

John Swaffield

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#5367499 in Books Swaffield John A Swaffield J A 2010-06-02Original language:EnglishPDF # 1 9.21 x .81 x 6.14l, .0 #File Name: 0415492653362 pagesTransient Airflow in Building Drainage Systems | File size: 66.Mb

John Swaffield : Transient Airflow in Building Drainage Systems before purchasing it in order to gage whether or not it would be worth my time, and all praised Transient Airflow in Building Drainage Systems:

Giving you the first comprehensive presentation of the ground breaking research undertaken at Heriot Watt University, with Research Council and industrial funding, this book brings a new perspective to the design of building drainage and vent systems. It provides the building services community with clear and verifiable design methods that will be robust enough to meet challenges such as climate change and water conservation; population migration to the mega cities of the developing world, and the consequent pressures of user concentration; the rise of the prestige building and the introduction of new appliances and control strategies. These all combine to make traditional codified design guidance insufficient. Many assumptions in existing codes defining the entrained airflows within building drainage vent systems cannot be theoretically supported, so designers concerned with these systems need analysis and simulation capabilities which are at least as reliable as those enjoyed by other building services practitioners. The Method of Characteristics solution techniques which are well established in the pressure surge field are now used to provide solutions for drainage designers. The material is applied to a whole range of abstract scenarios then to a series of real world applications including the forensic modelling of the SARS virus spread within Amoy Gardens in 2003 and the refurbishment of the O2 Dome. Applications to specialised services, including underground station drainage and highly infectious disease treatment facilities are discussed and demonstrated, alongside the use of design and simulation techniques in support of product development. Aimed at both professional and academic users, this book serves both as a design aid and as a core text for specialist masters courses in public health and building services engineering.

"David Thorpe outlines, in fastidious detail, the journey to a new life that is not only lower impact, but is also delightful and fun- and he is quite prepared to fully address the multiple bureaucratic and technical challenges and along the way. This book is an excellent and immensely practical step by step guide, illustrated with copious examples, for everyone ready to make that change." George Marshall, founder of the Climate Outreach Information Network and author of *Don't Even Think About It: Why Our Brains Are Wired to Ignore Climate Change*. "Over the last 30 years economists have had to reassess how improvements to human welfare are measured. Unfettered growth in household demands causes local and global problems. Measures such as the ecological footprint seek to assess the planet consequences of our consumption activities. Practically what it means to live a one-planet lifestyle is rarely considered in terms of the benefits and challenges, and this book is therefore a welcome reckoning. A key theme is the fact that maximising consumption activity should not be confused with maximising human welfare." Professor Max Munday, Director of the Welsh Economy Research Unit, Cardiff Business School. "David Thorpe's new book is a timely reminder that we have only one planet to live on - and that this fact needs to be reflected how we live, and everything we do. But as well as making the irrefutable case for 'one planet living', it provides a wealth of practical detail on how to actually do it, and this is surely where the book's greatest value lies for a new generation of one planet pioneers determined to lead the way to new ways of living, that tread lightly upon the Earth and sustain her natural riches." Oliver Tickell, editor, *The Ecologist* magazine and author of *Kyoto2: How to Manage the Global Greenhouse*.
About the Author John Swaffield is Emeritus Professor and former head of the School of the Built Environment and its Drainage Research Group at Heriot Watt University, Edinburgh. From 1996 to 2003 he was chair of the Water Regulations Advisory Committee of the UK governments Department for Environment, Food and Rural Affairs and he was President of the Chartered Institution of Building Services Engineers for 2008/09.