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# The Engineered Design of Building Drainage Systems

*J. A. Swaffield, L. S. Galwin*

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**J. A. Swaffield, L. S. Galwin : The Engineered Design of Building Drainage Systems** before purchasing it in order to gage whether or not it would be worth my time, and all praised The Engineered Design of Building Drainage Systems:

The "Engineered Design of Building Drainage Systems" addresses the central problem of building drainage design, namely the unsteady nature of the flow within the drainage system follow the random operation of system appliances. The flow within the building drainage systems is identified as belonging to the general family of unsteady flow conditions and solution techniques based upon the mathematical method of characteristics are proposed. Computing models based on these mathematical solutions and techniques are formulated and fully validated for full scale building drainage networks. The applications of the computer model to the prediction of flow depths and flow rates at any point within a multi-storey network at any point during a simulation is presented within the text. The text is seen as a necessary bridge between the practical application of drainage design and theoretical fluid mechanics and matehmathical basis of the unsteady flow conditions. The text for the first time illustrates techniques for the full time dependent prediction of flow conditions within complex drainage systems, covering both free surface partially filled

waste water pipeflows and the entrained air flows found in vertical stacks and vent systems.