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# CAD Principles for Architectural Design

*Peter Szalapaj*

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**Peter Szalapaj : CAD Principles for Architectural Design** before purchasing it in order to gauge whether or not it would be worth my time, and all praised CAD Principles for Architectural Design:

CAD Principles for Architectural Design is aimed at design students and practitioners interested in understanding how CAD is used in architectural practice. This book makes connections between the basic operations that are common to most CAD systems, and their use in practice on actual architectural design projects. The ways in which CAD is integrated into the design processes of several leading edge practices is illustrated. Arising from these case studies is

the emergence of a contemporary phenomenon of integrated CAD, in which all aspects of design schemes are brought together within computational frameworks that support the analysis of design proposals. Szalapaj's view of CAD is one in which computers constitute a medium in which designers can express design ideas, rather than viewing computers as problem solving machines. For creative designers to successfully exploit CAD technology, CAD systems should reflect designers' intuitions as described by designers themselves

'This book is fundamentally a primer for those eager to learn the magic of computer-aided architectural design...a very useful starting point for the student or architect...giving a novice insight into what people do at the coalface of architectural corporations.' Architect's Journal 'Good introduction to how CAD can be used (not just machine focus!) - the reasons on why use CAD are well covered.' H. Graham, Senior Lecturer, School of Architecture, University of Plymouth  
From the Publisher The book is goal-orientated rather than software-orientated. It aims to show not only how particular forms can be produced, but also the further implications of producing forms in different ways. The implications of CAD representations are extremely important in their relationship to design intentions. CAD possibilities are investigated, therefore, from a design viewpoint. This book is intended to be used as a course book for students of CAD in general, even though the many examples and illustrations are predominantly architectural. Some basic design skills are assumed, as well as some basic computing concepts, but no previous experience of the use of particular CAD software is required.  
About the Author Peter Szalapaj gained a doctorate in 'Computer Aided Design' from Edinburgh University. He has been lecturing on CAD at Sheffield University since 1992 and is the author of numerous papers and technical reports on the subject. His view of CAD goes against the orthodox ambitions for intelligent or expert systems, and favours the use of computers as a medium which designers can exhibit their own intelligence.