

## Introduction To Architectural Technology

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Understanding the relationship between design and technology is critical to the understanding of architecture. This book clearly explains the core aspects of architectural technology: structural physics, structural elements and forms, heating, lighting, environmental control and computer modelling. The third edition includes six new case studies, more on structural types, new information on construction detailing, passive building principles and designing for different climatic conditions. This essential introduction to architecture will help students to integrate their design thinking with the appropriate structural and environmental solutions.

This book provides an accessible introduction for architecture students to all aspects of architectural technology: structural physics, structural elements and forms, heating, lighting, environmental control, and computer modeling. It will also help students to integrate their design thinking with appropriate structural and environmental solutions. The book explains the relationships between physical phenomena, materials, building elements, and structural types using simple classification systems and real world examples. In addition, it explores current computer techniques for assisting students to predict the structural and environmental behavior of buildings. It also uses historical precedents to explain how the success of a technology is directly related to its cultural context. This second edition includes new sections on environmental design, Building Information Modeling (BIM), and two new case studies. Written by three experienced teachers, this book will be invaluable for those contemplating the study of architecture and for those already embarked on such a course.

Understanding the relationship between design and technology is critical to the understanding of architecture. This book clearly explains the core aspects of architectural technology: structural physics, structural elements and forms, heating, lighting, environmental control, and computer modelling. Hundreds of photographs, diagrams, and screengrabs demonstrate common architectural forms and construction techniques. Historical and contemporary examples chart significant moments in architectural engineering and the development of materials science. Includes an examination of computer-aided design (CAD) and the use of building information management (BIM) technology for predicting and analyzing the behavior of buildings. Written by three experienced teachers, this essential introduction to architecture will help students to integrate their design thinking with the appropriate structural and environmental solutions.

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... it gives me great pleasure to support the first ever publication to specifically address the area of research, and in particular its relationship with practice, in the discipline of architectural technology... not only ground breaking because it is the first book of its kind, but also because it provides at long last one of the accepted foundations needed to underpin the emerging academic discipline, namely a recognised research base. CIAT, in supporting this publication, is aware of the need for books such as this to sustain the process of research informed practice, as an aid for both students and those practising within the discipline of architectural technology. Norman Wienand MCIAT, Vice President Education, Chartered Institute of Architectural Technologists Architectural technology is the realisation of architecture through the application of building science, forming the constructive link between the abstract and the physical. Architectural Technology: research and practice demonstrates the importance of research in architectural technology and aims to stimulate further research and debate by enlightening, informing and challenging readers. Chapter authors address the interplay between research and practice in the field of architectural technology, examining the influence of political, economic, social, environmental and technological issues. The focus throughout is on creating sustainable buildings that are constructed economically and function effectively and efficiently within their service lifecycle. The book's mix of chapters and case studies bring together a number of different themes and provides invaluable insights into the world of research from the perspective of those working within the architectural technology field - practitioners, academics and students. The underlying message is that architectural technology is not just a profession; it is a way of thinking and a way of acting. This is highlighted by contributions from architects and architectural technologists passionate about architectural technology as a field of knowledge. Contributions range from the theoretical and polemic to the pragmatic and applied, further helping to demonstrate the richness of the field. About the Editor Stephen Emmitt is Professor of Architectural Technology at Loughborough University UK and Visiting Professor of Innovation Sciences at Halmstad University, Sweden and a member of CIAT's Research Group.

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Now in its third edition, this book provides the ideal and only reference to the physical basis of architectural design. Fully updated and expanded throughout, the book provides the data required for architects to design buildings that will maintain the users' comfort in a variety of conditions, with minimal reliance on energy intensive methods like air conditioning. This is not a 'how to' book but answers the question why. It equips the reader with the tools to realize the full potential of the good intentions of sustainable, bioclimatic design. All sections have been revised and updated for this third edition including all the most relevant developments affecting heat, light and sound controls. The book responds to the need of understanding beyond 'rules of thumb'.

This essential reference for all students of architecture, design and the built environment provides a convenient single source for all the key texts in the recent literature on architecture and technology. The book contains over fifty carefully selected essays, manifestoes, reflections and theories by architects and architectural writers from 1900 to 2004. This mapping out of a century of architectural technology reveals the discipline's long and close attention to the experience and effects of new technologies, and provides a broad picture of the shift from the 'age of tools' to the 'age of systems'. Chronological arrangement and cross-referencing of the articles enable both a thematic and historically contextual understanding of the topic and highlight important thematic connections across time. With the ever increasing pace of technological change, this Reader presents a clear understanding of the context in which it has and does affect architecture.