

# Introduction To Architectural Technology

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this core textbook brings together for the first time the technical legal social and philosophical issues under the umbrella of architectural technology part 1 covers the influences that affect the way we build the environmental agenda the human factors buildability time and costs part 2 takes the reader through the life of a typical building project from briefing through design and assembly to use and eventual disassembly part 3 tackles some of the underlying issues facing the architectural technologist from the communication of details to technological innovation architectural technology bridges the knowledge gap between design and construction enabling the architectural technologist to apply their unique skill in a creative and innovative way as a textbook aimed at those studying for membership of biat this is clearly very thorough and has the recommendation of their vice president education however it can also justifiably earn its place on the bookshelf of anybody involved in the construction process as a reference and to aid an

understanding of others he she will be working with to develop an environment of which to be proud building engineer july 2002

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 behaviour of buildings written by two experienced teachers 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 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

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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 life cycle 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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this collaborative volume by architectural historians and research engineers provides fresh insights into the early builders art

constant technological advancements are opening up dramatic new possibilities for the built form at the same time architects are developing innovative designs which require new techniques to make these ideas reality the encyclopedia of architectural technology is the first book to specifically address these two issues by providing a comprehensive reference to modern architectural technologies encompassing all key aspects of construction structures environmental design and servicing the encyclopaedia features over 180 entries ranging from materials and techniques to notable innovators in architecture and engineering each entry includes a brief quick reference summary followed by a more detailed text and suggestions for further reading besides technological terms entries are included on related topics such as sick building syndrome and sustainability key engineers ove arup and ted happold have dedicated entries as do a range of ground breaking architects such as le corbusier norman foster walter gropius herzog de meuron oscar niemeyer richard rogers carlo scarpa frank lloyd wright ken yeang and many others

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