Introduction To Architectural Technology

Architectural TechnologyIntroduction to Architectural Technology Second EditionIntroduction to Architectural Technology Third EditionIntroduction to Architectural Technology, 2nd EditionIntroduction to Architectural TechnologyIntroduction to Architectural Technology Second EditionEncyclopedia of Architectural TechnologyIntroduction to Architectural Technology, 2nd EditionArchitectural TechnologyArchitecture, Technology, and ProcessIntroduction to Architectural TechnologyArchitectural Technology Up to the Scientific RevolutionHandbook of Architectural TechnologyArchitectural TechnologyArchitectural Technology 3Architectural TechnologyPrinciples of Architectural Technology, 111.110Architectural TechnologyEncyclopedia of Architectural TechnologyArchitectural Technology by George H. Anthony Stephen Emmitt Pete Silver Pete Silver William McLean William McLean Pete Silver Pedro Guedes William McLean Stephen Emmitt Chris Abel Pete Silver (Architect) Robert Mark Henry J. Cowan Thomas L. Obermeyer UNITEC Institute of Technology. Department of Architecture Spencer Nicholls J. Carter Howald Jacqueline Glass George H. Anthony

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

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

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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

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this new selection of essays follows chris abel s previous best selling collection architecture and identity drawing upon a wide range of knowledge and disciplines the author argues that underlying technological changes in the process of architectural production are fundamental changes in the way we think about machines and the world we live in key topics include new patterns of urbanism in the fast growing cities of asia pacific metaphorical extensions of mind and body in cyberspace the divergent european and north american values shaping sir norman foster s and frank gehry s work and the collaborative work methods and technologies creating the adaptable design pratices of today

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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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