Design-Tech: Building Science for Architects

By Jason Alread, Thomas Leslie, Robert Whitehead

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Design-Tech is an indispensable, holistic approach to architectural technology that shows you in hundreds of drawings and tables the *why* as well as the *how* of building science, providing you with a comprehensive overview. In this expanded edition, measurements and examples are listed in both metric and imperial units to reflect the global reality of architectural practice. The authors also address digital fabrication, construction documentation, ultra-high-rise structures, and zoning codes. And there's more in-depth coverage of structural design and greater emphasis on environmental forces. Numerous case studies demonstrate real-world design implications for each topic, so that you can integrate technical material with design sensibilities.

Short chapters explain each topic from first principles in easy-to-reference formats, focusing on what you need to know both at the drawing board and in future discussions with engineers, contractors, and consultants. This new edition incorporates material from continuing curricular experimentation in the SCI-TECH sequence at Iowa State University, which has been recognized with awards and funding from the American Institute of Architects, the U.S. Green Building Council, and the National Council of Architectural Registration Boards.

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Editorial Review

Review

Design Tech brings a refreshing approach to building technology systems and provides historical context, specification, measurement, and updated tools to students and practitioners.

Alison Kwok, Professor at University of Oregon

It provides the exact right amount of building technology information, clearly and concisely delivered, for architecture students.

Donna Kacmar, Associate Professor at University of Houston

The 2nd edition of *Design Tech* provides a comprehensive overview about the nuts and bolts of design in a single reference. The authors have distilled the most relevant information making it ideal for those interested in architectural design

Kevin Dong, Professor at California Polytechnic State University

With *Design Tech* we finally have the book that effectively extends building technology (teaching) into design studios and professional practice. A must have for students and young professionals.

Andrzej Zarzycki, Associate Professor at New Jersey Institute of Technology

Design-Tech is how I wish I had learned first principles of building technology: integrated, intuitive, and imaginatively illustrated.

Ryan E. Smith, Director ITAC, University of Utah

About the Author

Jason Alread, AIA, LEED AP, is an Associate Professor of Architecture and Director of Graduate Education at Iowa State University.

Thomas Leslie, AIA, is the Pickard Chilton Professor in Architecture at Iowa State University.

Rob Whitehead, AIA, LEED AP, is an Assistant Professor of Architecture at Iowa State University.

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Kenneth Tillman:

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