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# Integrated Buildings: The Systems Basis of Architecture

*Leonard R. Bachman*

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**Leonard R. Bachman : Integrated Buildings: The Systems Basis of Architecture** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Integrated Buildings: The Systems Basis of Architecture:

5 of 5 people found the following review helpful. Integrated Buildings: The Systems Basis of Architecture By Michael John Smith In this book, the reader is exposed to the integrated building concept through the exposition of theory, and the presentation of individual case studies. The case studies are organized into seven categories: Laboratories, Offices, Airport Terminals, Pavilions, Residential Architecture, High Tech Architecture, and Green Architecture. The author states, "What gravity is to structure...ecology is to Green." Through the case studies, icons of modern architecture, located all over the planet, are examined via an analysis of their systems. Through this vehicle, the reader learns from the masters. Each case study starts with a project description accompanied by a fact sheet. Program is broken down into client, brief, site, and climate. The case studies are enriched with biographical information on the individual architects. The analyses continue with details of intent, critical technical issues, etc., and conclude with a discussion of the

success of the different aspects of the project. To quote the author, "this book shows how case studies can be used to understand the integration of building systems and how inquiry into integration contributes to architectural success." A mastery of the concepts in Leonard Bachman's book can arm the architect with valid thought processes to free his/her design intuition from the constraints prevalent in early 21st century construction management. This book serves both as a reminder of ancient regional responses to climate and site, and a preparation for understanding the symbiotic building technologies now being built by world class practitioners.

2 of 2 people found the following review helpful. A Must-read for Every Architect  
By Kurt Neubek, FAIA  
Architects want to learn from each other and from the great architecture of the world. Unfortunately, it is nearly impossible for anyone (even an architect) to observe a completed building and understand all the issues that were considered and how they were ultimately integrated--or it has been, until now. Bachman has prepared an incredibly valuable resource that explains not only the theory and concepts behind integrated design, but illustrates them with thirty-one diverse case studies brimming with photographs, plans, sections, and pertinent data. This is a must-read for every architect and architecture student, yet it also will be of interest to anyone with an appreciation for the built environment.

1 of 1 people found the following review helpful. Insightful and Informative  
By Ralph L. Knowles  
Design depends on intuition but intuition itself depends on a base of knowledge. Leonard Bachman contributes handsomely to that base in his new book. His "systems basis of architecture" is clearly described both in theory and practice. His case studies begin with indigenous traditions and then follow their transmissions and adaptations of method in a rich matrix of more recent examples. His approach is at the same time insightful and informative, a powerful combination of great value to students of architecture.

An "anatomical" study of building systems integration with guidelines for practical applications  
Through a systems approach to buildings, *Integrated Buildings: The Systems Basis of Architecture* details the practice of integration to bridge the gap between the design intentions and technical demands of building projects. Analytic methods are introduced that illustrate the value, benefit, and application of systems integration, as well as guidelines for selecting technical systems in the conceptual, schematic, and design development stages of projects. Landmark structures such as Eero Saarinen's John Deere Headquarters, Renzo Piano's Kansai International Airport, Glenn Murcutt's Magney House, and Richard Rogers's Lloyd's of London headquarters are presented as part of an extensive collection of case studies organized into seven categories: Laboratories Offices Pavilions Green Architecture High Tech Architecture Airport Terminals Residential Architecture  
Advanced material is provided on methods of integration, including an overview of integration topics, the systems basis of architecture, and the integration potential of various building systems. An expanded case study of Ibsen Nelsen's design for the Pacific Museum of Flight is used to demonstrate case study methods for tracing integration through any work of architecture. Visually enhanced with more than 300 illustrations, diagrams, and photographs, *Integrated Buildings: The Systems Basis of Architecture* is a valuable reference guide for architecture and civil engineering students, as well as architects, engineers, and other professionals in the construction industry.

"It's a wonderful collection of 30 case-studies." (SBSE Newsletter, Spring 2003)  
From the Back Cover  
An "anatomical" study of building systems integration with guidelines for practical applications  
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About the Author  
LEONARD R. BACHMAN is Associate Professor of Architecture at the University of Houston's Gerald D. Hines College of Architecture and Director of the college's simulation and modeling lab. He is also a registered architect and technical consultant to a variety of architectural firms in Texas.