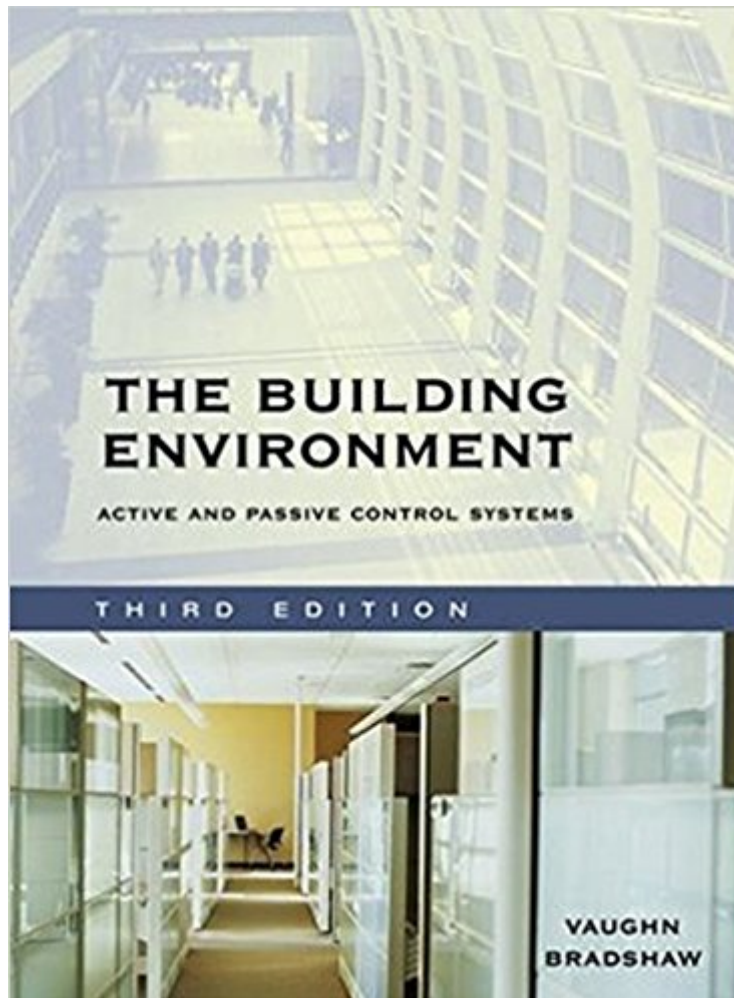




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The Building Environment: Active And Passive Control Systems



Synopsis

Get the updated guide to active and passive control systems for buildings. To capitalize on today's rapidly evolving, specialized technologies, architects, designers, builders, and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building. The Building Environment: Active and Passive Control Systems, Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort, safety, and energy efficiency of buildings. From active HVAC systems to passive methods, lighting to on-site power generation, this updated edition explains how to strategically plan for and incorporate effective, efficient systems in today's buildings. It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world's environment. The Building Environment goes beyond the ABCs of HVAC and covers: On-site power generation, including wind turbines, solar photovoltaic cells, fuel cells, and more. Plumbing systems, fire protection, signal systems, conveying systems, and architectural acoustics. Procedures and/or formulas for performing heat loss, heat gain, and energy use calculations, determining the rate of heat flow, calculating solar energy utilization, doing load calculations, and more. Details on the latest building codes and standards references. New information on the sustainable design of building systems and energy efficiency, including new technologies. The latest thinking and data on a building's impact on the environment, indoor air quality, and "sick building syndrome." Design economics, including the payback period, life-cycle cost, comparative value analysis, and building commissioning. A practical on-the-job tool for architects, designers, builders, engineers, contractors, and other specialists, this Third Edition is also a great reference for architecture students who will lead tomorrow's design teams. Visit the companion Web site at www.wiley.com/go/bradshaw.

Book Information

Hardcover: 592 pages

Publisher: Wiley; 3 edition (May 19, 2006)

Language: English

ISBN-10: 0471689653

ISBN-13: 978-0471689652

Product Dimensions: 8.9 x 1.3 x 11.2 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 3.9 out of 5 stars 4 customer reviews

Best Sellers Rank: #137,371 in Books (See Top 100 in Books) #31 in Books > Engineering & Transportation > Engineering > Reference > Architecture > Study & Teaching #207 in Books > Arts & Photography > Architecture > Drafting & Presentation #239 in Books > Arts & Photography > Architecture > Buildings

Customer Reviews

"Offers new material on the environment and sustainability along with a broad survey on mechanical/electrical/plumbing systems in buildings. He favors principle concepts over technical detail, providing enough information so the architect may plan for space and access of each system, and have enough knowledge of terminology and function to coordinate effectively with specialists."
(Book News, February 2008)

The updated guide to active and passive control systems for buildings To capitalize on today's rapidly evolving, specialized technologies, architects, designers, builders, and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building. The Building Environment: Active and Passive Control Systems, Third Edition helps architects and builders take advantage of design innovations and construction strategies that maximize the comfort, safety, and energy efficiency of buildings. From active HVAC systems to passive methods, lighting to on-site power generation, this updated edition explains how to strategically plan for and incorporate effective, efficient systems in today's buildings. It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world's environment. The Building Environment, Third Edition goes beyond the ABCs of HVAC and covers: On-site power generation, including wind turbines, solar photovoltaic cells, fuel cells, and more Plumbing systems, fire protection, signal systems, conveying systems, and architectural acoustics Procedures and/or formulas for performing heat loss, heat gain, and energy use calculations, determining the rate of heat flow, calculating solar energy utilization, doing load calculations, and more Details on the latest building codes and standards references New information on the sustainable design of building systems and energy efficiency, including new technologies The latest thinking and data on a building's impact on the environment, indoor air quality, and "sick building syndrome" Design economics, including the payback period, life-cycle cost, comparative value analysis, and building commissioning A practical on-the-job tool for architects, designers, builders, engineers, contractors, and other specialists, this Third Edition is also a great reference for architecture students who will

lead tomorrow's design teams. Visit the companion Web site: www.wiley.com/go/bradshaw

Great

Mr Bradshaw does an excellent job in presenting an enormous amount of information in a very clear manner. It is an overview, yet it gives very detailed information. It is aimed at architectural students, which I am not, but I needed information and this has helped me enormously.

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