Building Control Systems

Vaughn Bradshaw
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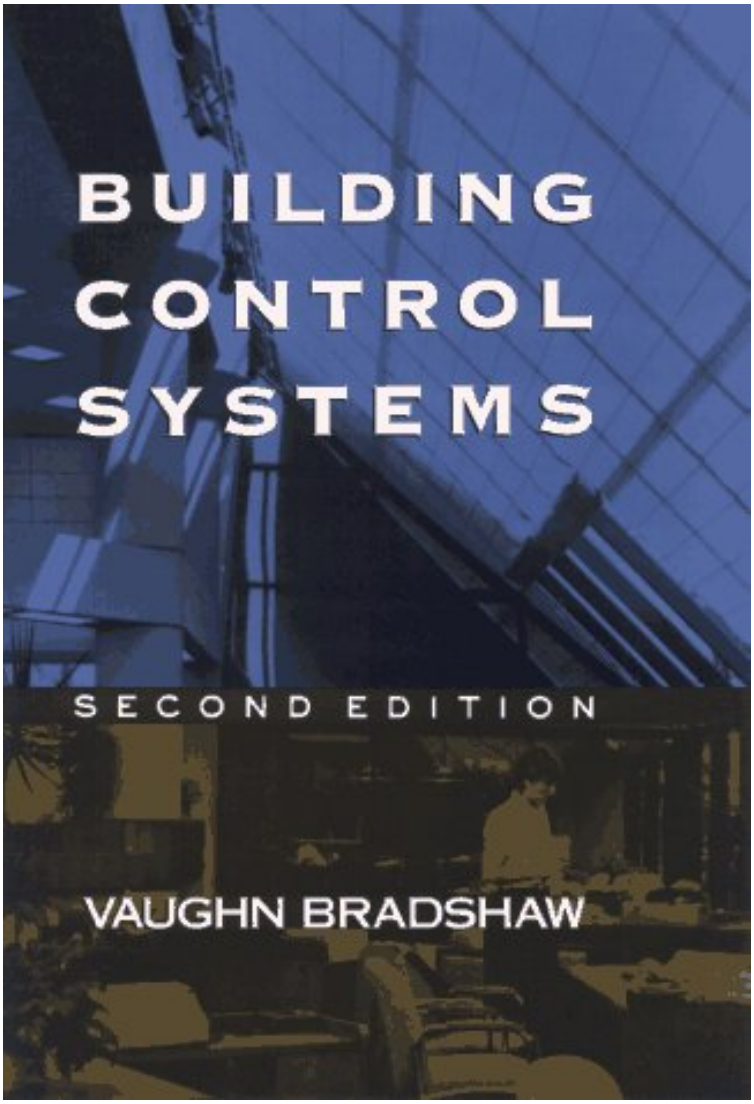

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"Offers new material on the environment and sustainability along with a broad survey on mechanical/electrical/plumbing systems in buildings. He favors principle concepts over technical detail, providing enough information so the architect may plan for space and access of each system, and have enough knowledge of terminology and function to coordinate effectively with specialists." (Book News, February 2008)From the Back CoverArchitects were once charged with designing entire buildings, including the HVAC, lighting and power systems. But with the advent of more complex technologies, engineers and other specialists became responsible for these systems, with architects assuming expanded roles as team managers. The latest edition of Building Control Systems provides architecture students with the larger picture without overwhelming them with details. In emphasizing a conceptual understanding of the functions of various systems and how they interact with building components, the book provides the exact information that tomorrows architects will need to effectively communicate and coordinate with consultants in all of the many building disciplines. This revised Second Edition covers the theoretical bases for thermal controlthe systems used to control the thermal environment within buildingsvarious electrical systems, including power and lightingsuch building control topics as plumbing services and fire protectionand economics-based design decision making. Building Control Systems, Second Edition provides coverage of:New building designs that minimize our dependence on nonrenewable fuels and use only a "fair share" of renewable fuels with important steps toward cutting costs and preserving precious resourcesSuch pressing environmental concerns as indoor air quality, "sick building syndrome," noise pollution, global warming, and depletion of the ozone layer and the impact on building designNew technologies, including new passive thermal control systems designed to minimize energy consumptionThe latest building codes for architects and specialists on the design teamThoroughly up to date, this book provides architecture students with theoretical information they must have as they assume the dual roles of designer and manager. This guide will also prove to be a useful on-the-job tool for architects, designers, builders, developers, contractors, beginning HVAC designers, and building managers.About the AuthorVAUGHN BRADSHAW, PE, is a former Professor of Architecture in the School of Architecture at Washington University.