

Intelligent Buildings And Building Automation

James Sinopoli

Intelligent Buildings and Building Automation Shengwei Wang, 2009-12-04 Giving you a combination of general principles, applied practice and information on the state-of-the-art, this book will give you the information you need to incorporate the latest systems and technologies into your building projects. It focuses on a number of important issues, such as: Network communication protocols and standards, including the application of the internet. The integration and interfacing of building automation subsystems and multiple building systems. Local and supervisory control strategies for typical building services systems. The automation system configuration and technologies for air-conditioning control, lighting system control, security and access control, and fire safety control. Whether you're a project manager or engineer planning the systems set-up for a high value building, or a building engineering or management student looking for a practical guide to automation and intelligent systems, this book provides a valuable introduction and overview.

Smart Buildings Jim Sinopoli, 2006 Smart Buildings is a practical guide and resource for architects, engineers, facility managers, developers, contractors, and design consultants. The book covers the costs and benefits of smart buildings, and the basic design foundations, technology systems, and management systems encompassed within a smart building. Unlike other resources, Smart Buildings is organized to provide an overview of each of the technology systems in a building, and to indicate where each of these systems is in their migration to and utilization of the standard underpinnings of a smart building.

Intelligent Buildings Brian Atkin, 1988

Intelligent Buildings and Building Automation, 2019

Intelligent Building Systems Albert Ting-pat So, Wai Lok Chan, 2012-12-06 Intelligent building is the future of our building industry; all commercial, residential, industrial and institutional buildings will be designed towards the goal of 'intelligent buildings'. The most important aspect of an intelligent building is the building systems, such as electrical services, heating, ventilation and air-conditioning systems, vertical transportation systems, and life safety systems, which must operate intelligently and efficiently to enhance the activities of the occupants. Intelligent Building Systems explains what already exists in a modern intelligent building and describes what is currently being developed by researchers to improve human comfort, working efficiency and energy performance for buildings in the 21st century. Intelligent Building

Systems is divided into three parts. The first part gives a quick review of the structure, terminology, layout and operating principles of most standard modern building systems. The second part introduces the background material necessary to understand intelligent building systems, including information on electronics technology, fundamental mathematics, and techniques in artificial intelligence and signal processing. These first two parts are the foundation for the final part, which consists of research works carried out by the authors and other researchers in the application of artificial intelligence to building systems. The technologies presented will encourage readers to envision new and innovative ideas on possible future applications. Intelligent Building Systems is relevant to practitioners and researchers in the area of architectural science and engineering, electrical and mechanical services and intelligent buildings. It may also be used as a text for advanced courses on the topic.

Intelligent Buildings in South East Asia Andrew Harrison, Eric Loe, James Read, 2005-10-05 This study is based on a major research project which looks at user requirements and changing patterns in the workplace. It provides in one volume, essential information on building intelligence.

The Role of Building Automation System in Intelligent Buildings Boon Hin Koh, 1998

Intelligent Buildings D. Boyd, 1994 An intelligent building is one that maximizes the efficiency of the occupants whilst minimizing the costs associated with running it. This book considers the economic case for intelligent buildings, and how they can be seen as an investment, but one requiring management.

Intelligent Building Control Systems John T. Wen, Sandipan Mishra, 2017-12-04 Readers of this book will be shown how, with the adoption of ubiquitous sensing, extensive data-gathering and forecasting, and building-embedded advanced actuation, intelligent building systems with the ability to respond to occupant preferences in a safe and energy-efficient manner are becoming a reality. The articles collected present a holistic perspective on the state of the art and current research directions in building automation, advanced sensing and control, including: model-based and model-free control design for temperature control; smart lighting systems; smart sensors and actuators (such as smart thermostats, lighting fixtures and HVAC equipment with embedded intelligence); and energy management, including consideration of grid connectivity and distributed intelligence. These articles are both educational for practitioners and graduate students interested in design and implementation, and foundational for researchers interested in understanding the state of the art and the challenges that must be overcome in realizing the potential benefits of smart building systems. This edited volume also includes case studies from implementation of these algorithms/sensing strategies in to-scale building systems. These demonstrate the benefits and pitfalls of using smart sensing and control for enhanced occupant comfort and energy efficiency.

Smart Buildings Systems for Architects, Owners and Builders James M Sinopoli, 2009-11-09 Smart Buildings

Systems for Architects, Owners and Builders is a practical guide and resource for architects, builders, engineers, facility managers, developers, contractors, and design consultants. The book covers the costs and benefits of smart buildings, and the basic design foundations, technology systems, and management systems encompassed within a smart building. Unlike other resources, Smart Buildings is organized to provide an overview of each of the technology systems in a building, and to indicate where each of these systems is in their migration to and utilization of the standard underpinnings of a smart building. Written for any professional interested in designing or building smart Buildings systems, this book provides you with the fundamentals needed to select and utilize the most up to date technologies to serve your purpose. In this book, you'll find simple to follow illustrations and diagrams, detailed explanations of systems and how they work and their draw backs. Case studies are used to provide examples of systems and the common problems encountered during instillation. Some simple Repair and Trouble shooting tips are also included. After reading this book, builders, architects and owners will have a solid understanding of how these systems work which of these system is right for their project. Concise and easy to understand, the book will also provide a common language for ensure understanding across the board. Thereby, eliminating confusion and creating a common understanding among professionals. - Ethernet, TCP/IP protocols, SQL datebases, standard fiber optic - Data Networks and Voice Networks - Fire Alarm Systems, Access Control Systems and Video Surveillance Systems - Heating, Ventilating and Air Conditioning Systems and Electric Power Management Systems, Lighting Control Systems - Facility Management Systems

Intelligent Buildings Michelle D. Gouin, Thomas B. Cross, 1986

Intelligent Buildings Carter Myers, 1996

Advanced Technology for Smart Buildings James Sinopoli, 2016-07-31 Authored by an accredited expert in the field, this timely new resource introduces technologies that can be used for advanced smart buildings, including renewable power, communications, indoor positioning, security management, and control systems. This book speaks to the innovation of advanced technology, particularly information technology within the building industry today and explores the potential benefits and issues with advanced technology and its applications and presents practical real-world case studies. This book demonstrates that the penetration of information technology in the building industry is a long term, major development that will affect homes, offices, and other buildings. Smart technology will impact the automation and communications in existing and new building systems.

"Smart Buildings"--building Automation David Kent Ballast, 1987

Intelligent Buildings Belgian Institute of Automatic Control, Unicom Seminars, Unicom Seminars Ltd, Contract Journal and International Construction, Contract Journal, 1987

Advances in Technology for Smart Buildings , 2018-05 Our buildings today are certainly smarter than they were 10, or

even five years ago. Nevertheless, steady advances in building management and automation systems, data analysis tools, and communications protocol design are occurring. Innovation and new technologies are changing the characteristics of buildings on a daily basis. This is because building owners are requiring more automated services, increased security, more efficient operations and reduced budgets. Therefore as building automation features are improving and reduced budgets are being required by owners, additional avenues should be evaluated to reduce long-term costs by improving facility maintainability. Recent advances in data gathering and analysis are opening up new possibilities for smart building technology. The ongoing expansion and upgrading of wireless networks and leaps in computing power mean that today's smart building designers possess the tools to use data to make the built environment more comfortable while reducing our carbon footprint. The aim of *Advances in Technology for Smart Buildings* is to bring together academic and industrial specialists, which addresses this important topic entails significant developments in a broad range of topics, from foundational topics regarding the organization and analysis of information, to papers delivering novel technological platforms for interconnecting smart sensors and intelligent devices, to pilots reporting recent developments in real-world deployments, particularly for intelligent buildings, as this is the current trend in which building construction is heading. It limitedly considers the historic aspects of construction and automation, assesses the current situation and considers the projected future needs. Sensors are increasingly being installed in buildings to gather data about movement, heat, light and use of space. This information allows building management systems (BMS) to make reactive - and even anticipatory and personalized - real-time changes to a building's environment to suit its occupants.

Networking for Building Automation and Control Systems John J. McGowan, 1992

Building Automation and Digital Technologies Shahryar Habibi, 2022-03-17 Building automation systems and digital technologies are highly relevant for the environmental and energy performance of buildings. However, a clear gap remains between architectural engineering and the use of such technologies. *Building Automation and Digital Technologies* shows how to assimilate automation and digital technologies into making buildings smarter and more environmentally sustainable. This book shows why architects need smart and digital systems in building design and construction and promotes innovative technological tools for improving sustainability. It focuses on the development of automated environmental conditions and how new technology informs architectural engineering. The book also provides new evidence on the impact of building automation systems and digital technologies, such as the Internet of Things, artificial intelligence, and information and communication technology for developing a performance-based approach to the environmental sustainability of buildings, and provides a key reference for architects on how digital technology can inform their practice. Its four chapters cover: developing strategies for improving sustainable and smart buildings; architectural practice and construction technology; creativity and innovation in building automation systems; and the use phase of buildings. *Building Automation and Digital*

Technologies meets a critical need for a sustainable and smart built environment from an architectural perspective, providing an important reference to architects and professionals in related fields by demonstrating the assimilation of the latest information and automation technologies. - Puts forward an architectural perspective on the design and construction of smart, sustainable buildings - Presents the use of digital technologies for design and construction - Bridges the gap between architectural engineering and the use of automation and digital technology - Considers the development of automated environmental conditions and new technology

Intelligent Building Technology in Japan Arthur Rubin, 1998-05 While the concept of intelligent buildings was initiated in the U.S., in recent years the Japanese have been at the forefront in rapidly applying new technologies in building designs and applications. This report assesses advances in Japanese intelligent buildings, and the implication of its effects on the U.S. construction industries. Information was obtained from visits to advanced buildings and building complexes in Japan, and interviews with architects, engineers, researchers and academics. Covers: changing characteristics of building users, experiences with new technologies, and forecasts of intelligent building design.

Smart Building Design Maad Bali, Dietmar A. Half, Dieter Polle, Jürgen Spitz, 2019-01-29 How can smart technology open up new design opportunities – for the design, the execution, and the operation of buildings and for the digitalization of construction? A hitherto unusual conception of the building as a cybernetic architectural system forms the basis of this integrated design approach. The authors – architects and engineers with extensive design experience – contribute an overview of current technical components of automation and communication systems, as well as a summary of relevant laws, standards, and guidelines. Six example projects demonstrate completed applications at different scales, from a single-family residence to office buildings, and through to the Elbphilharmonie concert hall – amply illustrated in text, drawings, and photos.

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