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The integration and interfacing of  
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An intelligent building optimizes preventative maintenance by automatically scheduling maintenance on assets based on things like actual run hours or onboard performance diagnostics in the system. As facility managers use things like variable

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frequency drives (VFDs) to save energy, they reduce the total run hours on a piece of equipment.

~~How Do Intelligent Buildings Differ from Building ...~~

The definition proposed by the Intelligent Building Institute is "an

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Automation  
Intelligent building is one that provides a productive and cost-effective environment through optimization of its four basic elements—structure, systems, services and management—and the interrelationships between them. Intelligent buildings help

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Automation  
business owners, property managers and occupants to realize their goals in the areas of cost, comfort, convenience, safety, long-term flexibility and marketability."

~~Intelligent Buildings – an overview~~

*Page 22/74*

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~~Automation~~  
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Building automation is the automatic centralized control of a building's HVAC (heating, ventilation and air conditioning), lighting, Access Control, Security Systems, and other interrelated systems through a Building

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Automation System (BMS) or Building Automation System (BAS). The objectives of building automation are improved occupant comfort, efficient operation of building systems, reduction in energy consumption, reduced operating costs,



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Automation  
increased security, historical  
performance ...

~~Building automation - Wikipedia~~  
An intelligent building thinks for  
itself. It does things for you before  
you ask, anticipating your needs  
and helping you do what you

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need to do. It adapts to multiple parameters, is aware of their context and affects systems holistically to suit these inputs. This article is the first in a series about designing intelligent buildings.

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~~What is an Intelligent Building? |  
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Intelligent Building Automation Systems, Inc. specializes in design, development, integration, programming, and service of building automation systems. Our mission is to provide unparalleled

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Intelligent building (IB) and building automation (BA) systems play an essential role in most sophisticated modern buildings. Monitoring and automatic control of building services systems are important to ensure that the design objectives are met in

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The integration and interfacing of building automation subsystems and multiple building systems. Local and supervisory control

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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.

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Building Automation Systems (BAS) and IoT technologies are driving the Smart and/or Intelligent Buildings frontier. Some of the benefits include: improved life cycle of system



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Automation, efficient system  
operations, improved occupant  
comfort and significant reduction  
in operating costs and energy  
consumption.

~~Building Automation - Creating  
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1.0 out of 5 stars Intelligent  
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Automation. Reviewed in the

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United States on December 26, 2011. Verified Purchase. I purchase this book based on the single person 5-stars review (big mistake!). It has almost 50% of its initial chapters on historical technology, and the rest is more than a standard knowledge you



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Giving you a combination of general principles, applied practice and information on the state-of-the-art, this book will give

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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

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Automation 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

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for a practical guide to automation and intelligent systems, this book provides a valuable introduction and overview.

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Papers from architects, engineers, telecommunications experts, and information technology (IT) consultants provide overview of the state-of-the-art in all aspects of intelligent building technology. Contributors describe how intelligent buildings can be

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designed to incorporate the infrastructure required by contemporary communications and data-processing systems, and even how a "robot" building can function automatically with respect to environmental management, fire protection, and

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Intelligent buildings provide  
stimulating environments for  
people to work and live in. This



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book brings together a body of the latest knowledge about design, management, technology and sustainability set against the background of developments in the cultural landscapes, which affect those living and working in buildings.

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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.

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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

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Automation 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

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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

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Automation 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

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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

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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



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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

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Automation intelligent buildings. It may also be used as a text for advanced courses on the topic.

Readers of this book will be shown how, with the adoption of

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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.

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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

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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.

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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

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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

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pitfalls of using smart sensing and control for enhanced occupant comfort and energy efficiency.

The book entitled "Advancements in Smart City and Intelligent Building" is the Proceedings of the International Conference on



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Automation  
Smart City and Intelligent Building  
(ICSCIB 2018) held in Hefei,  
China, September 15-16, 2018. It  
contains 58 papers in total  
categorized into 8 different  
tracks, on Building Energy  
Efficiency, Construction Robot  
and Automation, Intelligent

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Automation and Urban Safety,  
Intelligentialization of Heating  
Ventilation Air Conditioning  
System, Information Technology  
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Systems, New Generation  
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Techniques, Smart Home and

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Automation Utility, and Smart Underground Space, which cover a wide range areas of smart cities and intelligent buildings. ICSCIB2018 provided an international forum for professionals, academics, and researchers to present the latest developments from

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interdisciplinary theoretical studies, computational algorithm developments and engineering applications in smart cities and smart buildings. This academic event featured many opportunities to network with colleagues from around the world

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in a wonderful environment. Its program covered invitation and presentations from scientists, researchers, and practitioners who have been working in the related areas to establish platforms for collaborative research projects in these fields.

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The conference invited leaders from industry and academia to exchange and share their experiences, present research results, explore collaborations and to spark new ideas, with the aim of developing new projects and exploiting new technology in

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these fields, and bridge theoretical studies and emerging applications in various science and engineering branches. This book addresses the recent development and achievement in the field of smart city and intelligent building. It is primarily

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intended for researchers and students for undergraduate and postgraduate programs in the background of multiple disciplines including computer science, information systems, information technology, automatic control and automation, electrical and



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electronic engineering, and  
telecommunications who wish to  
develop and share their ideas,  
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