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

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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 Management System (BMS) or Building Automation System (BAS).

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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 designed to incorporate the infrastructure required by contemporary communications and

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Automation 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

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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

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enhanced occupant comfort and energy efficiency.

This book introduces the concept of Intelligent Buildings to the wider construction community. Edited by the Father of Intelligent Buildings, Derek Clements-Croome, the book explains

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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 building is the building systems, such as electrical services, heating,

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Automation 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

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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

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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

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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

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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

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The book entitled “Advancements in Smart City and Intelligent Building” is the Proceedings of the International Conference on Smart City and Intelligent Building (ICSCIB 2018) held in Hefei, China, September 15-16,

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Automation 2018. It contains 58 papers in total categorized into 8 different tracks, on Building Energy Efficiency, Construction Robot and Automation, Intelligent Community and Urban Safety, Intelligentialization of Heating Ventilation Air Conditioning System, Information Technology and Intelligent

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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.

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