

# Smart Buildings: Design, Installation, and Management

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Publisher: readolla.com

Published date: 2024

Here is the translation to English: \*\*Intelligent Building. A Guide for the Designer, Installer\*\* \*\*Part I: Introduction to Intelligent Buildings\*\* \*

## 1.1. Definition of an Intelligent Building

- 1.1.1. Basic characteristics of an intelligent building
- 1.1.2. Benefits of intelligent buildings
- 1.1.3. Examples of intelligent building applications

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## 1.2. History of Development of Intelligent Buildings

- 1.2.1. Early intelligent building systems
- 1.2.2. Development of IoT technology in intelligent buildings
- 1.2.3. Future of intelligent buildings

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## 2.1. Planning and Designing an Intelligent Building

- 2.1.1. Phases of planning and designing
- 2.1.2. Incorporating IoT technology into the project
- 2.1.3. Applying models and simulations in designing

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## 2.2. Building Management Systems (BMS)

- 2.2.1. Basic functions of BMS
- 2.2.2. Application of BMS in intelligent buildings
- 2.2.3. Integration of BMS with IoT systems

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## 2.3. Networks and Connectivity in Intelligent Buildings

- 2.3.1. Types of networks and connectivity in intelligent buildings
- 2.3.2. Network and connectivity security
- 2.3.3. Designing networks and connectivity

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- 2.4.1. Basic functions of alarm and monitoring systems
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2.6. HVAC Systems

- 2.6.1. Basic functions of HVAC systems
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## 2.7. Energy Management Systems

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## 2.8. Security and Protection Systems

- 2.8.1. Basic functions of security and protection systems
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- 2.10.1. Basic functions of waste management and recycling systems
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- 2.10.3. Integration of waste management and recycling systems with BMS

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- 3.1.1. Phases of planning and organization
- 3.1.2. Incorporating IoT technology into the installation
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- 3.2.1. Types of networks and connectivity in intelligent buildings
- 3.2.2. Network and connectivity security
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### The book can be purchased at

https://readolla.com/smart-buildings-design-installation-and-management