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Nota di contenuto	Front Cover; The Indoor Environment Handbook; Copyright Page; Contents; List of Figures, Tables, Boxes and Plates; Why this Book?; How to Read this Book; Acknowledgements; List of Symbols, Acronyms and Abbreviations; Part I: Humans and the Indoor Environment; 1. Health, Comfort and Indoor Environmental Control; 1.1 Introduction; 1.2 Disorders and diseases; 1.3 Indoor environmental parameters and control; 1.4 Link with Parts II and III; 2. Human Reception and Perception; 2.1 The human senses and human systems; 2.1.1 Human senses; 2.1.2 Human systems; 2.1.3 Possible diseases and disorders 2.1.4 Measurement of human reception and perception2.2 The human skin; 2.2.1 Components of the skin; 2.2.2 Mechanisms; 2.2.3 Possible diseases and disorders; 2.3 The human eye; 2.3.1 Components of the eye; 2.3.2 Mechanisms; 2.3.3 Possible diseases and disorders; 2.4 The human nose; 2.4.1 Components of the nose; 2.4.2 Mechanisms; 2.4.3 Possible diseases and disorders; 2.5 The human ear; 2.5.1 Components of the ear; 2.5.2 Mechanisms; 2.5.3 Possible diseases and disorders; 2.6 The human respiratory tract; 2.6.1 Components of the respiratory tract; 2.6.2 Mechanisms

2.6.3 Possible diseases and disorders  
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3.4.4 Ventilation mechanisms  
3.4.5 Measurement; 3.4.6 Control strategies; 3.5 Sound parameters; 3.5.1 Parameters and definitions; 3.5.2 Mechanisms; 3.5.3 Sources of noise; 3.5.4 Measurement; 3.5.5 Control strategies; Part II: Health and Comfort in the Indoor Environment; 4. Past, Present and Future of Health and Comfort in the Indoor Environment; 4.1 Introduction; 4.2 Definition of health and comfort; 4.3 Drivers of health and comfort; 4.4 Link to Part III; 5. Defining Health and Comfort in the Indoor Environment; 5.1 Component-related approach  
5.1.1 From thermal comfort to simulation and adaptive comfort  
5.1.2 From daylight entry and visual comfort to lighting and health; 5.1.3 From ventilation to source control; 5.1.4 From noise disturbance to noise, health and vibrations; 5.2 Bottom-up holistic approach; 5.2.1 More than one parameter; 5.2.2 Epidemiological studies; 5.2.3 Psycho-social effects; 5.3 Performance concepts and indicators; 5.3.1 Performance evaluations; 5.3.2 Financial evaluation; 5.3.3 Savings and productivity gains; 5.3.4 Health and comfort; 6. Drivers of Health and Comfort in the Indoor Environment  
6.1 External drivers

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Sommario/riassunto

Winner of the Choice Outstanding Academic Titles of 2010 award. Ensuring that buildings are healthy and comfortable for their occupants is a primary concern of all architects and building engineers. This highly practical handbook will help make that process more efficient and effective. It begins with a guide to how the human body and senses react to different indoor environmental conditions, together with basic information on the parameters of the indoor environment and problems that can occur. It then moves on to give a background to the development of the study and control of the indoor environment.

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