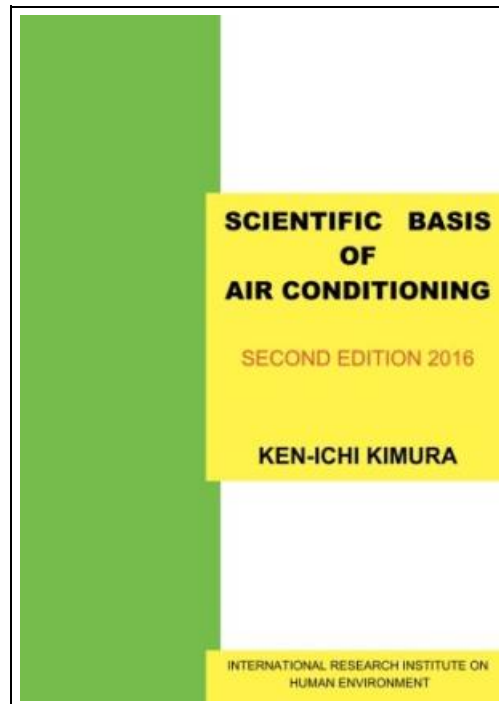


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On Demand Publishing, LLC-Create Space, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book is written as an advanced text for graduate students in architectural science, building science, building engineering, architectural engineering and mechanical engineering, as well as a reference book for practising air conditioning engineers. It deals with the scientific nature of air conditioning, from the basic theories to the applied technology as it is generally accepted today. The purpose of air conditioning is to create comfortable conditions in the building environment. However, air conditioning ought to be blamed as it consumes an excessive amount of primary energy. It is therefore important to learn both the scientific basis of air conditioning and the principles of energy conservation to ensure that air conditioning is designed in the most efficient manner. The performance of air conditioning depends on various parameters and it is related to many different aspects of science. For example, solar radiation incident on building surfaces and transmitted through windows has an important influence on the thermal environment of the occupied space, while the basic theories of solar radiation belong to physics and environmental science. Heat transfer is taught in the departments of mechanical engineering and chemical engineering; however, unsteady-state condition and non-linear heat transfer occur everywhere in a building and heat transfer in buildings entails somewhat different features from those governing heat transfer in mechanical systems. Heat conduction within the building structure, heat convection along the interior and exterior surfaces of building components, and radiation exchange between the surfaces of enclosed spaces may sometimes give rise to quite complicated problems. In the past, teachers of air conditioning have had to collect the information applicable to air conditioning practice from different fields of science and no systematic theory seems to have been...

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