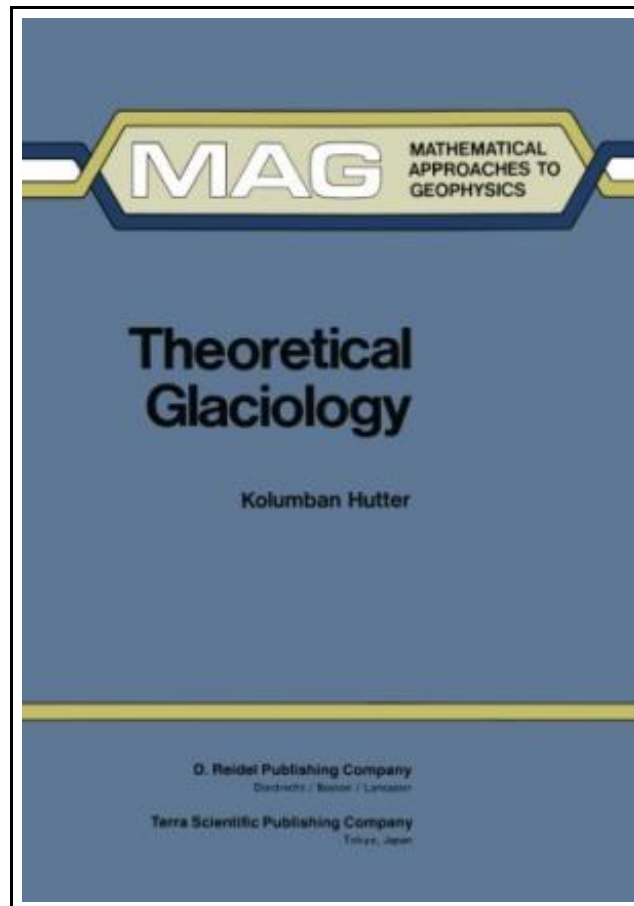


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Book Condition: New. Publisher/Verlag: Springer Netherlands | Material Science of Ice and the Mechanics of Glaciers and Ice Sheets | The purpose and scope of this book on theoretical glaciology is outlined in the Introduction. Its aim is to study the theoretical aspects of ice mechanics and the dynamics of ice masses in a geophysical environment. For the mature reader, the book can serve as an introduction to glaciology. However, this is not what I would regard as advisable. Glaciology is an interdisciplinary science in which many special scientific disciplines play their part, from descriptive geography to fairly abstract mathematics. Advancement will evolve from a merger of two or more branches of scientific specialization. In the last 20 years, several researchers in different fields of glaciology have written books emphasizing the aspects of their specialities and I have listed some which are known to me at the end of the Introduction. When glancing through these books, one recognizes that the mathematical aspects of glaciology are generally glossed over and, to date, there seems to be nothing available which concentrates on these. Therefore, I have written this book in an effort to close the gap and no apologies are offered for the mathematical emphasis. Rather, I believe that this neglect has, to a certain extent, aggravated progress in the modelling of glaciology problems. | I. Fundamental Physics and Materials Technology of Ice.- 1, General Concepts.- 1. Introduction.- 2. Equations of Balance.- 3. Material Response.- (a) General constitutive relations, simple materials.- (b) The rule of material objectivity.- (c) Material symmetry.- (d) Constitutive response for isotropic bodies.- (e) Materials with bounded memory - some constitutive representations.- (f) Incompressibility.- (g) Some representations of isotropic functions.- 4. The Entropy Principle.- (a) The viscous heat-conducting compressible fluid.- (b) The viscous heat-conducting incompressible fluid.-...



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