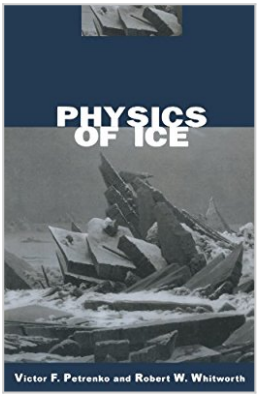

Physics of Ice

By Victor F. Petrenko, Robert W. Whitworth

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Ice is one of the most abundant and environmentally important materials on Earth, and its unique and intriguing physical properties present fascinating areas of study for a wide variety of researchers. This book is about the physics of ice, by which is meant the properties of the material itself and the ways in which these properties are interpreted in terms of water molecules and crystalline structure. Although ice has a simple crystal structure its hydrogen bonding results in unique properties, which continue to be the subject of active research. In *Physics of Ice*, the physical principles underlying the properties of ice are carefully developed at a level aimed at pure and applied researchers in the field. Important topics like current understandings of the electrical, mechanical and surface properties, and the occurrence of many different crystalline phases are developed in a coherent way for the first time. An extensive reference list and numerous illustrations add to the usefullness and readability of the text.

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Editorial Review

Review

A new textbook on the physics of ice has long been overdue. The careful scholarship and complementary expertise of the two authors have combined to produce a useful addition to every library and many personal collections. The book provides much for the ice specialist, the newcomer to the field and those seeking any information about this amazing material. **British Crystallographic Asociation News** *At last there is a book of sufficient detail and scope, yet manageable size, that can be used as a text for graduate courses in ice physics. And students will want to keep it as a reference for their careers in the broad field of glaciology. This book is the first comprehensive treatment of the physics of ice to be written in the last 25 years. It provides an up-to-date discussion of the properties of ice and an interpretation of these properties in terms of the structure of the water molecule and ice crystals.* **Journal of Glaciology**

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