



The Science of Crystallization: Macroscopic Phenomena and Defect Generation

William A. Tiller

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This book is an important companion volume to *The Science of Crystallization: Microscopic Interfacial Phenomena*. It deals specifically with convection, heat transport, and solute transport and describes both steady state and transient solute distributions in bulk crystals, small crystallites of various shapes, and thin films. Integrating these factors, it treats interface instability for interfaces of different shape plus the dominant morphological characteristics found in crystals during either single phase or polyphase crystallization. The concepts are extended to embrace biological crystallization and the connecting links between the morphological features of polymer crystallization and simple organic molecule crystallization. In addition, the generation of physical and chemical defects is treated for both bulk crystals and thin films to show both the origins of these faults and some procedures for eliminating them. A variety of mathematical examples are utilized to help the reader gain a quantitative understanding of this topic.

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