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from its theoretical foundations to its applications in real situations. The thermodynamics presented will prepare students for later courses in fluid mechanics and heat transfer, and practicing engineers will find the applications helpful in their

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professional work. The book is appropriate for an introductory undergraduate course in thermodynamics and for a subsequent course in thermodynamic applications. The chapters dealing with steam power plants, internal combustion

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crystallographic and chemical defects. The formation of these defects is governed by the heat and mass transfer conditions which prevail on and near a crystal-nutrient interface during crystallization.

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Hence, both the growth of highly perfect crystals and the preparation of samples having predetermined defect-induced (extrinsic) properties require a thorough understanding of the reaction and transport

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mechanisms that govern crystallization from vapors, solutions and melts. Crystal growth, as a science, is therefore mostly concerned with the chemistry and physics of heat and mass transport in these fluid-

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solid phase transitions. Solid-solid transitions are, at this time, not widely employed for high quality single-crystal production. Transport concepts are largely built upon equilibrium considerations,

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