

Optical Properties of Solids

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Optical Properties Of Solids Mark Solution

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Optical Properties Of Solids Mark Solution:

Optical Properties of Solids Mark Fox, 2010-03-25 The second edition of this successful textbook provides an up to date account of the optical physics of solids All of the chapters have been updated and improved and new sections on optical control of spin quantum dots plasmonics negative refraction carbon nanostructures and diamond NV centres have been added

Optical Properties of Solids Anthony Mark Fox, 2001 This book gives an introduction to the optical properties of solids including many new topics that have not been previously covered in other solid state texts at this level The fundamental principles of absorption reflection luminescence and light scattering are discussed for a wide range of materials including crystalline insulators and semiconductors glasses metals and molecular materials Classical and quantum models are used where appropriate along with recent experimental data Examples include semiconductor quantum wells organic semiconductors vibronic solid state lasers and nonlinear optics

InAs_{1-x}P_x Semiconductor Solid Solutions in Modern Electronics Nodar Kekelidze, Elza Khutsishvili, Georgy Kekelidze, Tengiz Qamushadze, 2022-09-23 Semiconductor based devices with increased reliability low cost unusual lightness small size and minimal service have become an important part of our daily lives It is difficult to imagine life without electronic vehicles TVs computers smartphones medical networks and global e commerce As this book argues semiconductors are the main driving force behind economic strength national security and resilience in times of crisis However novel types of semiconductors are needed in order to support ever growing scaling demands today Developing semiconductors with desired properties such as tolerance to radiation for instance is of crucial importance InAs InP solid solutions present an example of such materials used for cutting edge electronic technologies Packed with diagrams and accompanying detailed computations this book provides a comprehensive coverage of InAs_{1-x}P_x solid solutions from the production of single bulk crystals and layers to the thorough study of their properties and to their inexhaustible application potential in electronics

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