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Relaxation of the Chemical Bond (Hardback)

By Changqing Sun

Springer Verlag, Singapore, Singapore, 2014. Hardback. Book Condition: New. 2014 ed.. 168 x 160 mm. Language: English . Brand New Book. The aim of this book is to explore the detectable properties of a material to the parameters of bond and non-bond involved and to clarify the interdependence of various properties. This book is composed of four parts; Part I deals with the formation and relaxation dynamics of bond and non-bond during chemisorptions with uncovering of the correlation among the chemical bond, energy band and surface potential barrier (3B) during reactions; Part II is focused on the relaxation of bonds between atoms with fewer neighbors than the ideal in bulk with unraveling of the bond order-length-strength (BOLS) correlation mechanism, which clarifies the nature difference between nanostructures and bulk of the same substance; Part III deals with the relaxation dynamics of bond under heating and compressing with revealing of rules on the temperature-resolved elastic and plastic properties of low-dimensional materials; Part IV is focused on the asymmetric relaxation dynamics of the hydrogen bond (O:H-O) and the anomalous behavior of water and ice under cooling, compressing and clustering. The target audience for this book includes scientists, engineers and practitioners in the area...



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