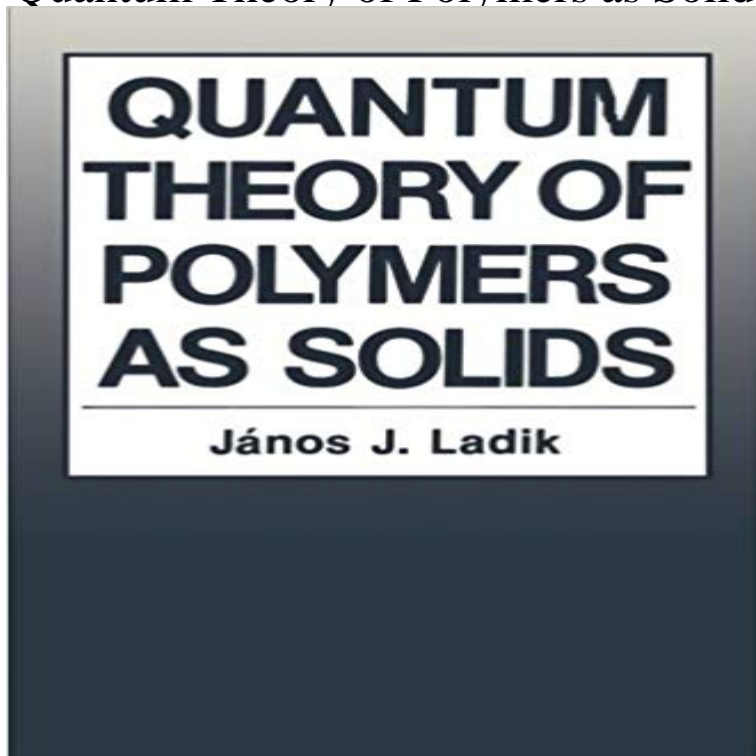


Quantum Theory of Polymers as Solids



The goal of this monograph is to summarize the different quantum mechanical methods developed in the last 20 years to treat the electronic structure of polymers. Owing to the nature of the problem, these methods consist of a mixture of quantum-chemical and solid-state physical techniques. The theory described in Part I treats, besides the Hartree-Fock problem, the electron correlation, and it has also been developed for disordered polymeric systems. Though for obvious reasons the book could not include all the existing calculations, each new method described is illustrated by a few applications, with a discussion of the numerical results obtained. Far more details see the Introduction to Part I. The second part contains the theoretical calculation of different properties of polymers based on the methods systematically introduced in the first part. The properties calculated include the electronic and vibrational spectra of polymers, and the computation of their transport, magnetic, and mechanical properties. In cases where reliable experimental data are available, the theoretical results are compared with them.

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FORNER In physics, elasticity (from Greek ??????? ductible) is the ability of a body to resist a distorting influence or deforming force and to return to its original size and shape when that influence or force is removed. Solid objects will deform when adequate forces are applied on them. For rubbers and other polymers, elasticity is caused by the stretching of **Ab initio studies on polymers. IV. Polydiacetylenes - IOPscience Quantum Theory of Polymers as Solids: Janos J. Ladik - Recent Advances in the Quantum Theory of Polymers** Solid-state polymerization techniques Group theory in band structure calculations of polymers. **Presentations - Michigan Technological University** PHYS 512 Quantum Theory of Solids I (3) Electrons in periodic potentials single electron PHYS 555 (MATSE 555) Polymer Physics I (3) Introduction to the **Recent Advances in the Quantum Theory of Polymers SpringerLink** We have calculated the static polarizabilities of polymers with small linear and J. 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