

dynamical properties of solids pdf

Abstract: We consider an attraction-repulsion chemotaxis model coupled with the Navier-Stokes system. This model describes the interaction between a type of cells (e.g., bacteria), which proliferate following a logistic law, and two chemical signals produced by the cells themselves that degraded at a constant rate.

American Institute of Mathematical Sciences

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Psi-k | Ab initio (from electronic structure) calculation

In solid-state physics, the electronic band structure (or simply band structure) of a solid describes the range of energies that an electron within the solid may have (called energy bands, allowed bands, or simply bands) and ranges of energy that it may not have (called band gaps or forbidden bands).. Band theory derives these bands and band gaps by examining the allowed quantum mechanical ...

Electronic band structure - Wikipedia

Quick and Dirty Introduction to Mott Insulators Branislav K. Nikolić‡ Department of Physics and Astronomy, University of Delaware, U.S.A. PHYS 624: Introduction to Solid State Physics

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Ergodic hypothesis - Wikipedia

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Grain boundaries are natural obstacles to the motion of dislocations during plastic straining of crystalline matter. As such, they may be the cause of grain-scale heterogeneity in terms of the mismatch of the elastic-plastic strain rate, internal stress, and crystallographic reorientation rate fields.

CPFEM, strain map. crystal plasticity, crystal plasticity

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