Advanced eBook Information

Materials Research
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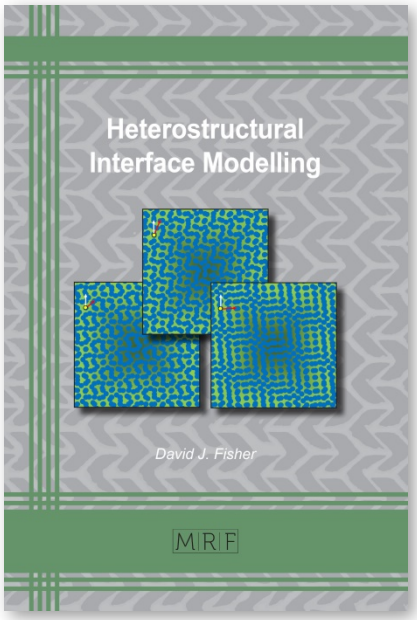
Heterostructural Interface Modelling



David J. Fisher

Handbook / PDF eBook DRM Free

The book reviews recent experimental and theoretical research in the area of modelling new types of joints and predicting the expected properties.

Keyword: Interface Modelling, Lattice Theory, Semiconductor Electronics, Lithium-ion Conductor, Graphite Filaments, Graphite Sheets, Interface Stresses, Epitaxial Deposition, Composite Design, Coincidence-Site Lattice Theory, Ionic Conductivity, Interfacial Lattice Strain, Epitaxial Thin Films, Compatible-Material-Combination Software, Lattice-Matching to Silicon, Lattice-Matching to Smiconductors, Lattice-Matching to Sapphire, Lattice-Matching to Ceramics, Lattice-Matching to Metals, Lattice-Matching to Organic Materials

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Imprint: Materials Research Forum LLC, *Publisher's sales rights are Wordwide*

Summary:

The interface structure of joined materials is a key factor in the development of high-tech components. The book reviews recent experimental and theoretical research in the area of modelling new types of joints and predicting the expected properties. Fields covered include lattice theory, semiconductor electronics, solid-state lithium-ion conductor, solid-state devices, filamentary growth of graphite, curved basal sheets of graphite, thermodynamic factors and lattice-matching criteria, minimisation of interface stresses due to misfit, epitaxial deposition, composite design, coincidence site lattice theory, ionic conductivity improvement by interfacial lattice strain, epitaxial thin-film systems, methods and software for identifying compatible material combinations. The book references 302 original resources and includes their direct web link for in-depth reading.

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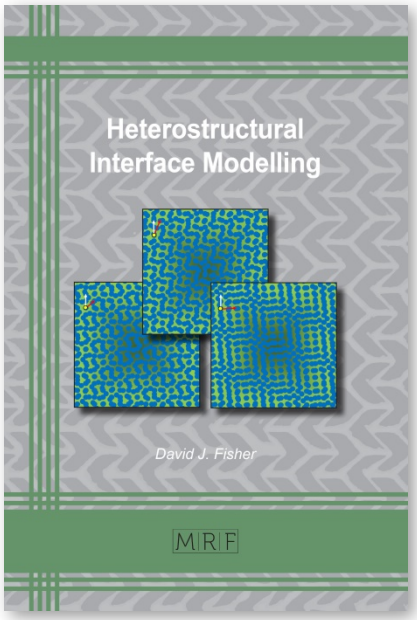

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Handbook / color print, paperback

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