

Advanced materials : an introduction to modern materials science

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=9999920580552&lokasi=lokal>

Abstrak

This book provides a thorough introduction to the essential topics in modern materials science. It brings together the spectrum of materials science topics, spanning inorganic and organic materials, nanomaterials, biomaterials, and alloys within a single cohesive and comprehensive resource. Synthesis and processing techniques, structural and crystallographic configurations, properties, classifications, process mechanisms, applications, and related numerical problems are discussed in each chapter. End-of-chapter summaries and problems are included to deepen and reinforce the reader's comprehension. Provides a cohesive and comprehensive reference on a wide range of materials and processes in modern materials science; Presents material in an engaging manner to encourage innovative practices and perspectives; Includes chapter summaries and problems at the end of every chapter for reinforcement of concepts