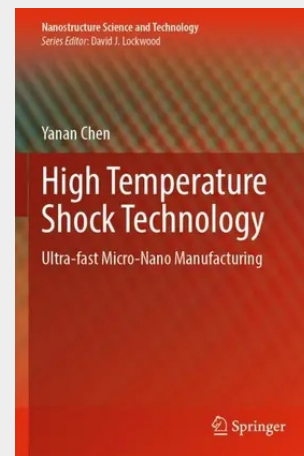


High Temperature Shock Technology

Ultra-fast Micro-Nano Manufacturing

This book introduces high-temperature shock technology (HTS), a new method for ultra-fast synthesis of nanomaterials. HTS cannot only effectively avoid surface oxidation, agglomeration and immiscibility during the preparation of nanomaterials but also eliminate the defects or impurities of carbon-based nanomaterials. The book first presents the unique working devices of HTS. Then, it explains the working principle of its rapid heating and cooling rate at the millisecond level. In addition, the book highlights the latest research achievements of this technology in catalysis, batteries, carbon materials and new material devices, and puts forward the cost-benefit analysis and future development direction. Given its scope, the book appeals to a broad readership, particularly researchers engaged in materials, chemistry, new energy and other related fields, as well as teachers of relevant majors in colleges and universities.

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