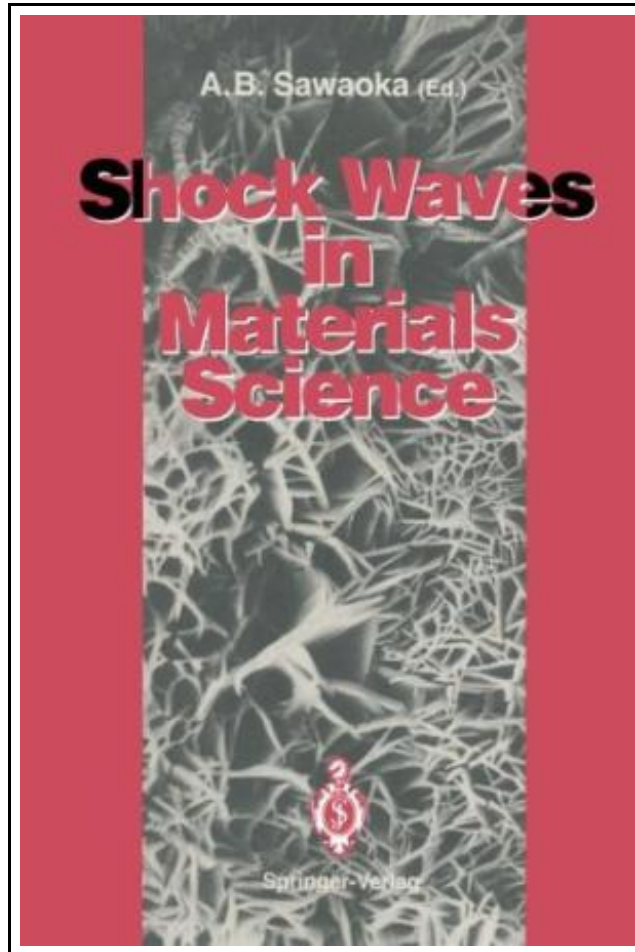


Shock Waves in Materials Science



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It is really an remarkable book which i have ever go through. It can be writer in simple terms and not difficult to understand. I am just effortlessly can get a enjoyment of reading a composed pdf.
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Book Condition: New. Publisher/Verlag: Springer, Berlin | In this volume, the shock compression technology of materials is described in parallel with the latest research results and their background. In the past, this type of technology was developed in connection with military techniques by certain particular research organizations. For this reason, researchers of materials in general have had less opportunity to make use of the technology. The conventional technology of shock compression has now been established, and is recognized as being remarkably useful as a means of materials science study. The feasibility of shock compression technology is dealt with in this book, as well as the latest research results for general material scientists. The shock synthesis of ceramics and intermetallic compounds, as well as shock compression behavior, are also described. In contrast to conventional works of this kind, this book describes shock compression studies performed by material scientists. | 1 Heterogeneous Distribution of Temperatures and Pressures in the Shock Recovery Fixtures and its Utilization to Materials Science Study.- 1 Introduction.- 2 Reasonable size of recovery fixture.- 3 Shock wave reflection in solids.- 4 Recovery assembly of a very thin specimen, sandwiched between high impedance materials.- 5 Recovery fixture having thick specimen chamber.- 5.1 Gun recovery experiment.- 5.2 Explosive recovery experiment.- 6 Numerical simulation of shock compression in the recovery capsule.- 7 Shock compression of a solid by means of converging shock waves.- 7.1 Simulation of conically converging shock wave in the rod-in-cylinder structure.- 7.2 Shock compression of iron by using the conically converging technique.- 8 Conclusions.- 2 Dynamic Synthesis of Superhard Materials.- 1 Introduction.- 2 Dynamic synthesis of super hard materials.- 3 Considerations of synthesis mechanism.- 4 Conclusions.- 3 Solid State Reactivity of Shock-Processed Solids.- 1 Introduction.- 2 Shock modification of shock-processed solids.- 3 Single-component system.- 3.1 Solid-solid interaction.- 3.2 Solid-liquid...



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