

Shock Waves in Materials Science

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A must buy book if you need to adding benefit. This really is for all those who statte that there had not been a really worth looking at. Your daily life period will likely be change when you complete reading this publication. (Veronica Hauck DVM)

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SHOCK WAVES IN MATERIALS SCIENCE



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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 Sock wave reflection in solids.- 4 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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