

1. Record Nr.	UNINA9910557530203321
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Titolo	Impact Welding of Materials
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 electronic resource (210 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Recent industrial criteria increasingly require the production of multi-material components. However, the manufacturing requirements of these components are not met by conventional welding techniques. Alternative solid-state technologies, such as impact-based processes, must be considered. The impact welding family is composed of several processes, such as explosion welding, magnetic pulse welding, vaporizing foil actuator welding, and laser impact welding. These processes present very different length scales, providing the impact welding family with a broad applicability range. A sample of the cutting-edge research that is being conducted on the multidisciplinary field of impact welding is presented in this book.