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The explosive welding process is one of the most useful and widely employed applications of the high energy rate methods to the fabrication of materials. Its major advantage lies in that it does not suffer from the limitations imposed on other welding processes by their specific characteristics.

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Abstract. The beginning of the use of explosives for forming of metals dates to 1888 when the earliest recorded application is described as the engraving of iron plates by imprinting a design on a block of explosives or by interposing a stencil between the explosive and the plate.

Explosive Forming | SpringerLink
Czajkowski, H. Explosive welding of mild steel-aluminium prefabricates, Int. Cof. on the Use of High Energy Rate Methods for Forming, Welding and Compaction, University of Leeds (1973), 14.1–12. Google Scholar

Explosive Welding in Planar Geometries | SpringerLink
t Explosive formi ng techniques. 23 May 2002 19. Explosive welding/cladding • Room temperature process • dissimilar and similar metal welding • e.g. Ti-Steel, SS-Cu, Al-Steel, Ni-steel, also Ti-Ti • welding of surfaces (planar/curved, sheet/foil) • local welding (“seam weld”) • Metal bonding without melting/re-solidification ...

Explosive forming techniques
In explosive welding, due to nonuniform velocity of the explosion along the weld seam, the interface usually does not possess a uniform structure . Clearly, this feature is more significant near the detonation zone where explosion is more unstable. ... Explosive Welding, Forming and Compaction, Applied Science Publishers, London (1985) Google ...

The effect of explosive welding parameters on ...
Explosive Welding, Forming and Compaction. Explosive Welding, Forming and Compaction pp 369-395 | Cite as. Powder Compaction. Authors; Authors and affiliations; R. Prümmer; Chapter. 26 Citations; 303 Downloads; Abstract. For a long time explosive compaction was considered an unsuitable tool for industrial application. Usually powder compaction ...

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Chap. 6 in Explosive welding, forming and compaction. Applied Science Pub. 1983. 3. Crossland, B. Explosive welding of metals and its application. Clarendon Press, Oxford 1982. 4. Chadwick, M. D. and Jackson P. W. Explosive welding in pressure vessels and heat exchangers. Chap. 7 in Developments in Pressure Vessel Technology 3.

Applications of explosive welding to heat exchangers ...
In order to manufacture metal-sheathed bulk superconducting discs, the explosive compaction/cladding technique, which combines explosive welding and compaction, was employed . In this paper, experimental and numerical investigations were reported on grooved metallic plates, filled with superconducting ceramic powder, subjected to explosive loading.

Recent developments in explosive welding - ScienceDirect
Powders of several ceramic materials were subjected to explosive shock waves and changes in their physical properties were studied. Very fine particle sized SiC and B 4 C could be produced without introducing impurities. Strong line broadening in the X-ray diffraction pattern of shocked powders was observed and correlated with lattice strain and crystallite size reduction.

Effect of Explosive Shock Waves on Ceramic Powders ...
Explosive welding is a solid phase method for connecting various layer-metal materials, which obtains welded joints by a high-speed oblique collision, aided by energy of explosion [5,6]. ... T.Z. BlazynskiExplosive Welding Forming and Compaction. London (1983) (ISBN 0-85334-166-4) Google Scholar

Dissimilar material welding of tantalum foil and Q235 ...
After explosive compaction–welding, the samples were sintered at a temperature of 850 °C for 30 min. OM images of the sintered samples are shown in Fig. 18, which indicate that the Cu grains in the coating and substrate were all coarsened. The interfaces between the Cu wires and the melting zone in the coating were still visible after the ...

Bonding mechanism of explosive compaction–welding ...
Get this from a library! Explosive welding, forming, plugging, and compaction : presented at the Pressure Vessels and Piping Conference, ASME Century 2--Emerging Technology Conferences, San Francisco, California, August 12-15, 1980. [Irwin Berman; J W Schroeder; American Society of Mechanical Engineers. Pressure Vessels and Piping Division.;]

Explosive welding, forming, plugging, and compaction ...
The multi-physical phenomena of explosive welding, including acceleration of the flyer plate driven by explosive detonation, oblique collision of the flyer and base plates, jetting phenomenon and the formation of wavy interface can be reproduced in the simulation. ... Blazynski, T.Z., Explosive welding, forming and compaction, 1985. Applied ...

Numerical simulation of explosive welding using Smoothed ...
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