

S.S. Batsanov

# Effects of Explosions on Materials

Modification and Synthesis  
Under High-Pressure  
Shock Compression



Springer-Verlag

# Effects Of Explosions On Materials

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## Effects Of Explosions On Materials:

*Effects of Explosions on Materials* Stepan S. Batsanov,2013-06-29 In the 1950s explosives began to be used to generate ultrahigh pressures in condensed substances in order to modify their properties and structure Notwithstanding the short duration of an explosion its energy proved to be high enough to perform physical chemical transformations of substances and the new method gained wide industrial applications It has both advantages and drawbacks in comparison with the traditional method of static compression The latter method notorious for its cumbersome and expensive machinery allows one to maintain high pressure as long as one pleases and to regulate the temperature of the sample arbitrarily But the pressure available is rather limited and for any increase of this limit one has to pay by the progressive shrinking of the working volume of a press The dynamic method has the advantages of low cost and practically no restrictions of magnitude of pressure and the size of a processed sample but the temperature in a compressed body is no longer controlled by an experimenter Rather it is firmly dictated by the level of loading according to the equation of state Hence it is difficult to recover metastable products and impossible to prepare solids with a low concentration of defects as the duration of explosion is too short for their elimination

**Structures to Resist the Effects of Accidental Explosions** ,1991 Effects of Explosions on Materials Stepan S. Batsanov,2014-01-15 **Industrial Fire Hazards and an Encyclopedia of Hazardous Materials** Gorham Dana,William Durant Milne,1928 **Response of Geologic Materials to Blast Loading and Impact** John C. Cizek,1985 *Technical Translations* ,1963 Technical Abstract Bulletin Defense Documentation Center (U.S.),1964 **U.S. Government Research Reports** ,1963 Applied Mechanics Aspects of Nuclear Effects in Materials American Society of Mechanical Engineers,1971 **Fire and Explosion Risks** Ernst von Schwartz,1904 **Fire and explosion risks, tr. by C.T.C. Salter** Ernst von Schwartz,1904 **Thesaurus of Engineering and Scientific Terms** Engineers Joint Council,1967 **U.S. Government Research & Development Reports** ,1970 Special Visual Effects Jack Imes,1984 **Chemical Abstracts** ,1924 Journal of the Society of Chemical Industry ,1923 *Van Nostrand's Engineering Magazine* ,1883 *Van Nostrand's Eclectic Engineering Magazine* ,1880 An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994 English Mechanic and Mirror of Science and Art ,1884

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