



Essential Guide to Project Plowshare: Nuclear Explosives for Peaceful Purposes - Excavation, Dam Construction, and Mining, Reports on Gnome and Sedan Tests, Chronology and Lists of Proposed Projects (Paperback)

By U S Military, Department of Defense (Dod), Atomic Energy Commission (Aec)

Independently Published, United States, 2019. Paperback. Condition: New. Language: English. Brand new Book. Three official government reports about the Plowshare peaceful nuclear explosion program are reproduced in this unique compilation: Plowshare Program Summary Report, Plowshare AEC Document, and Projects Gnome and Sedan Defense Department report. The United States Atomic Energy Commission (AEC), now the Department of Energy (DOE), established the Plowshare Program as a research and development activity to explore the technical and economic feasibility of using nuclear explosives for industrial applications. The reasoning was that the relatively inexpensive energy available from nuclear explosions could prove useful for a wide variety of peaceful purposes. The Plowshare Program began in 1958 and continued through 1975. Between December 1961 and May 1973, the United States conducted 27 Plowshare nuclear explosive tests comprising 35 individual detonations. Conceptually, industrial applications resulting from the use of nuclear explosives could be divided into two broad categories: 1) large-scale excavation and quarrying, where the energy from the explosion was used to break up and/or move rock; and 2) underground engineering, where the energy released from deeply buried nuclear explosives increased the permeability and porosity of the rock by massive breaking and fracturing. Possible excavation applications included: canals, harbors,...



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