

# The Mechanical Action of Nuclear Explosion



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This book offers a systematic description of physical and mathematical models of nuclear explosion development processes in the air and soil and mechanical action of explosion on the atmosphere and soil. Energy transferred to the external environment, formation and spreading of thermal and shock waves, soil evaporation and melting processes, and the formation of a crater are discussed. Special attention is given to the effect of media boundaries and various inhomogeneities of the solid mass, like the stratification of sedimentary rocks, cracks, faults, on these processes. The text is suitable for researchers and engineers working in the field of continuum mechanics, high-energy density physics and the mathematical simulation of blast and impulse load impacts.

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