



The Effects of Nuclear Weapons - Glasstone and Dolan DOD Authoritative Reference on Atomic Explosions, Damage, Radiation, Fallout, EMP, Biological, Radio and Radar Effects (CD-ROM)

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This electronic book on CD-ROM contains a full reproduction of the authoritative Department of Defense reference compiled by Samuel Glasstone and Philip Dolan, *The Effects of Nuclear Weapons*, Third Edition. Contents include: CHAPTER I-General Principles of Nuclear Explosions * Characteristics of Nuclear Explosions * Scientific Basis of Nuclear Explosions * CHAPTER II-Descriptions of Nuclear Explosions * Description of Air and Surface Bursts * Description of High-Altitude Bursts * Description of Underwater Bursts * Description of Underground Bursts * Scientific Aspects of Nuclear Explosion Phenomena * CHAPTER III-Air Blast Phenomena in Air and Surface Bursts * Characteristics of the Blast Wave in Air * Reflection of Blast Wave at a Surface * Modification of Air Blast Phenomena * Technical Aspects of Blast Wave Phenomena * CHAPTER IV-Air Blast Loading * Interaction of Blast Wave with Structures * Interaction of Objects with Air Blast * CHAPTER V -Structural Damage from Air Blast * Factors Affecting Response * Commercial and Administrative Structures * Industrial Structures * Residential Structures * Transportation * Utilities * Miscellaneous Targets * Analysis of Damage from Air Blast * CHAPTER VI-Shock Effects of Surface and Subsurface Bursts * Characteristics of Surface and Shallow Underground Bursts * Deep Underground Bursts * Damage to Structures * Characteristics of Underwater Bursts * Technical Aspects of Surface and Underground Bursts * Technical Aspects of Deep Underground Bursts * Buried Structures * Damage from Ground Shock * Technical Aspects of Underwater Bursts * CHAPTER VII-Thermal Radiation and Its Effects * Radiation from the Fireball * Thermal Radiation Effects * Incendiary Effects * Incendiary Effects in Japan * Technical Aspects of Thermal Radiation * Radiant Exposure-Distance Relationships * CHAPTER VIII-Initial Nuclear Radiation * Nature of Nuclear Radiations * Gamma Rays * Neutrons * Transient-Radiation Effects on Electronics (TREE) * Technical Aspects of Initial Nuclear Radiation * CHAPTER IX-Residual Nuclear Radiation and Fallout * Sources of Residual Radiation * Radioactive Contamination from Nuclear Explosions * Fallout Distribution in Land Surface Bursts * Attenuation of Residual Nuclear Radiation * Delayed Fallout * Technical Aspects of Residual Nuclear Radiation * CHAPTER X-Radio and Radar Effects * Introduction * Atmospheric Ionization Phenomena * Ionization Produced by Nuclear Explosions * Effects on Radio and Radar Signals * Technical Aspects of Radio and Radar Effects * CHAPTER XI-The Electromagnetic Pulse and its Effects * Origin and Nature of the EMP * EMP Damage and Protection * Theory of the EMP * CHAPTER XII-Biological Effects * Blast Injuries * Burn Injuries * Nuclear Radiation Injury * Characteristics of Acute Whole-Body Radiation Injury * Combined Injuries * Late Effects of Ionizing Radiation * Effects of Early Fallout * Long-Term Hazard from Delayed Fallout * Genetic Effects of Nuclear Radiation * Pathology of Acute Radiation Injury * Blast-Related Effects * Effects on Farm Animals and Plants * Glossary

When "The Effects of Atomic Weapons" was published in 1950, the explosive energy yields of the fission bombs available at that time were equivalent to some thousands of tons (i.e., kilotons) of TNT. With the development of thermonuclear (fusion) weapons, having energy yields in the range of millions of tons (i.e., megatons) of TNT, a new presentation, entitled "The Effects of Nuclear Weapons," was issued in 1957. A completely revised edition was published in 1962 and this was reprinted with a few changes early in 1964.

Since the last version of "The Effects of Nuclear Weapons" was prepared, much new information has become available concerning nuclear weapons effects. This has come in part from the series of atmospheric tests.

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