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AbstractAbstract

[en] The subject is covered in chapters, entitled: introduction; digest of nuclear weaponry (characteristics of nuclear weapons; effects of nuclear weapons other than ionizing radiation (fire-ball, fall-out, thermal radiation, blast wave, electromagnetic pulse); the nuclear arms race; war scenarios; biological effects of radiations on man (radiation doses; natural sources of radiation; acute effects of radiation; long-term somatic effects; genetic effects; factors affecting the biological response to radiation; internal exposure; synergistic effects; protection against radiation effects); radiations from nuclear explosions (initial radiation; fall-out; effects of fall-out on animal and plant life; contamination of water and food supplies by fall-out); radiation casualties in a nuclear war; effectiveness of civil defence; other warlike uses of radiation (attacks on civilian nuclear power installations; radiological warfare; terrorist activities); conclusion. (orig./HP)

[de]

Das Buch behandelt die Thematik in einzelnen Kapiteln mit den folgenden Ueberschriften: Einfuehrung; Kurzdarstellung der nuklearen Waffenkunde: Charakteristiken der Kernwaffen - Wirkung von Kernwaffen, ohne

Beruecksichtigung der ionisierenden Strahlung (Atompilz (fire-ball), Fall-out, Hitze-Strahlung, Druckwelle, Elektromagnetische Strahlungsphase, EMP); der Wettlauf in der Atomruestung; Kriegsszenarien; biologische Wirkungen von Strahlung auf den Menschen (Strahlendosen - natuerliche Strahlen - akute Strahlenwirkungen - somatische Langzeitwirkungen - genetische Wirkungen - die biologische Reaktion auf Strahlungen - Strahlenwirkung im Koerper - synergistische Wirkungen - Schutz von Strahlenwirkung); Strahlung infolge von Kernexplosionen (Initialstrahlung - Fall-out - Wirkungen des Fall-out auf tierisches und pflanzliches Leben - Verseuchung von Wasser und Nahrungsmitteln durch Fall-out); Verluste durch Strahlung in einem Atomkrieg, Wirksamkeit der zivilen Verteidigung; andere kriegsmaessige Einsatzmoeglichkeiten der Strahlung (Angriffe auf zivile Atomkraftwerke - Radiologische Kriegfuehrung - terroristische Aktivitaeten); Schlusswort. (orig./HP)

Original Title

Strahlungswirkungen beim Einsatz von Kernwaffen

Primary Subject

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Source

Militaerpolitik und Ruestungsbegrenzung; v. 4; 1986; 208 p; Berlin Verl. Arno Spitz; Berlin (Germany, F.R.); [ISBN 3-87061-270-3](#); ; Orignally published in English by Taylor and Francis, London, 1981.

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Book

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