

# The non-nuclear defense of cities: The high frontier space-based defense against ICBM attack

Graham, Daniel O

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# The Nonnuclear Defense Of Cities The High Frontier Spacebased Defense Against Icbm Attack

**Christian Drosten**



## **The Nonnuclear Defense Of Cities The High Frontier Spacebased Defense Against Icbm Attack:**

**The Non-nuclear Defense of Cities** Daniel Orrin Graham,1983 The active defense of large populated areas against nuclear armed ballistic missile bombardment has been one of the abiding problems of modern military strategy In this technical volume addressed to policy analysts and military specialists former Lt General Daniel Graham offers a comprehensive blueprint and strategic rationale for non nuclear protection of urban populations The system described consists of a combination of spaceborne boost phase and midcourse interceptors of attacking ballistic missiles plus a ground based missile defense all using non nuclear kill mechanisms He also shows how such a system could be militarily sound technologically feasible fiscally responsible and politically practical before 1990 ISBN 0 89011 586 9 25 00 *The Non-Nuclear Defense of Cities* Daniel O. Graham,1984-01-01 Originally published by Abt Books in 1983 this book assesses and describes the Anti Ballistic missile ABM defense as one of the three major ways of defending cities against nuclear armed ballistic missiles

**Justifying Ballistic Missile Defence** Columba Peoples,2010 Examines the ways in which views of technology have been used in debates over ballistic missile defence Department of Defense Appropriations for Fiscal Year 1986: Nondepartmental witnesses United States. Congress. Senate. Committee on Appropriations. Subcommittee on Defense,1986 *Directed Energy Missile Defense in Space* Ashton B. Carter,1984

**Department of Defense appropriations for fiscal year 1986** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Defense,1986

**Directed energy missile defense in space** ,1984 This Background Paper describes and assesses current concepts for directed energy ballistic missile defense in space Its purpose is to provide Members of Congress their staffs and the public with a readable introduction to the so called Star Wars technologies that some suggest might form the basis of a future nationwide defense against Soviet nuclear ballistic missiles Since these technologies are a relatively new focus for U S missile defense efforts little information about them has been readily available outside the expert community Directed energy or beam weapons comprise chemical lasers excimer and free electron lasers nuclear bomb powered x ray lasers neutral and charged particle beams kinetic energy weapons and microwave weapons In addition to describing these devices this Background Paper assesses the prospects for fashioning from such weapons robust and reliable wartime defense system resistant to Soviet countermeasures The assessment distinguishes the prospects for perfect or near perfect protection of U S cities and population from the prospects that technology will achieve a modest less than perfect level of performance that will nonetheless be seen by some experts as having strategic value Though the focus is technical the Paper also discusses but does not assess in detail the strategic and arms control implications of a major U S move to develop and deploy ballistic missile defense BMD *Department of Defense Appropriations for Fiscal Year ...* United States. Congress. Senate. Committee on Appropriations. Subcommittee on Department of Defense,1986

**Future Survey Annual 1984** World Future Society,1984-06-01

**Professional Journal of the United States Army** ,1984 *Missile Defence* Sten

Rynning, Bertel Heurlin, 2005-11-17 The missile defence policy of the US plays a crucial role in international affairs and is normally studied from a US perspective This book is different it delivers a sharp analysis of regional and national variations and integrates them with US viewpoints to present a rounded and comprehensive study What will be the international ramifications of American plans to deploy a comprehensive national missile defence policy This is a key question for all those wishing to build a sense of the global future and is here answered with clarity and rigour by expert contributors This new study breaks the mould of traditional assessments that focus exclusively on the US world picture and are inevitably one dimensional Here we see that US action automatically entails reactions as this text advances a more balanced approach By integrating a focus on US policy with a strong analysis of regional dynamics it demonstrates that the global ramifications of US policy are indeed contingent upon distinct regional and national variations These differences in turn have consequences both for the challenges the US faces in relation to missile defence and for the future of world politics This is an innovative and groundbreaking study that contains lessons for those wishing to safeguard the future by becoming alert to its challenges and complexities **Army**, 1984 Strategic Defense and Anti-satellite Weapons United States. Congress. Senate. Committee on Foreign Relations, 1984 **Air University Review**, 1984 **Remembering the space age: Proceedings of the 50th Anniversary Conference**, Proceedings of October 2007 conference sponsored by the NASA History Division and the National Air and Space Museum to commemorate the 50th anniversary of the Sputnik 1 launch in October 1957 and the dawn of the space age *Ballistic Missile Defense* Ashton B. Carter, David N. Schwartz, 2010-12-01 Defense against nuclear attack so natural and seemingly so compelling a goal has provoked debate for at least twenty years Ballistic missile defense systems formerly called antiballistic missile systems offer the prospect of remedying both superpowers alarming vulnerability to nuclear weapons by technological rather than political means But whether ballistic missile defenses can be made to work and whether it is wise to build them remain controversial The U S Soviet Anti Ballistic Missile Treaty of 1972 restricts testing and deployment of ballistic missile defenses but has not prohibited more than a decade of research and development on both sides As exotic new proposals are put forward for space based directed energy systems questions about the effectiveness and wisdom of missile defense have again become central to the national debate on defense policy This study jointly sponsored by the Brookings Institution and the Massachusetts Institute of Technology examines the strategic technological and political issues raised by ballistic missile defense Eight contributors take an analytical approach to their areas of expertise which include the relationship of missile defense to nuclear strategy the nature and potential applications of current and future technologies the views on missile defense in the Soviet Union and among the smaller nuclear powers the meaning of the Anti Ballistic Missile Treaty for today s technology and the present role and historical legacy of ballistic missile defense in the context of East West relations The volume editors give a comprehensive introduction to this wide range of subjects and an assessment of future prospects In the final chapter nine knowledgeable observers offer their varied personal views on the

ballistic missile defense question      **Single Stage to Orbit** Andrew J. Butrica, 2004-12-01 Winner of the Michael C Robinson Prize for Historical Analysis given by the National Council on Public History While the glories and tragedies of the space shuttle make headlines and move the nation the story of the shuttle forms an inseparable part of a lesser known but no less important drama the search for a reusable single stage to orbit rocket Here an award winning student of space science Andrew J Butrica examines the long and tangled history of this ambitious concept from its first glimmerings in the 1920s when technicians dismissed it as unfeasible to its highly expensive heyday in the midst of the Cold War when conservative backed government programs struggled to produce an operational flight vehicle Butrica finds a blending of far sighted engineering and heavy handed politics To the first and oldest idea that of the reusable rocket powered single stage to orbit vehicle planners who belonged to what President Eisenhower referred to as the military industrial complex added experimental X aircraft like capabilities and eventually a faster cheaper smaller managerial approach Single Stage to Orbit traces the interplay of technology corporate interest and politics a combination that well served the conservative space agenda and ultimately triumphed not in the realization of inexpensive reliable space transport but in a vision of space militarization and commercialization that would appear settled United States policy in the early twenty first century      Beyond Nuclear Thinking Robert W. Malcolmson, 1990-10-01 Most of what is written on nuclear weapons concentrates understandably on the here and now the nuclear threat is a central and continuing fact of modern history But this is intellectually constricting both for understanding the nuclear age and for making thoughtful political judgments It is essential to recognize what we have inherited since 1945 and why people have thought about nuclear weapons in the way they have In Beyond Nuclear Thinking Robert Malcolmson analyses the development of nuclear weapons and nuclear strategy since 1945 connecting the legacies of the past with the politics of the 1990s The nuclear nation states still consider it legitimate to use the threat of nuclear weapons to achieve their own ends Malcolmson explains why the doctrine of deterrence became so central to the political idea of security and reveals the confused nature of recent approaches to the pursuit of international security Beyond Nuclear Thinking presents a non technical and broadly based interpretation of important aspects of life and thought in the nuclear age      *The U.s. Congress And The German Bundestag* Uwe Thaysen, Robert Gerald Livingston, Martin J Hillenbrand, Nelson W Polsby, 2019-07-11 This book examines the lawmaking bodies of the United States and Germany and their constitutional duties and limitations It is a first ever joint US German parliamentary study that compares and contrasts two of the democratic West's most powerful legislatures      **Reaching for the High Frontier** Michael Michaud, 1986-12-03 Reaching for the High Frontier tells the story of the pro space movement from the end of the moon landing program to the beginning of the space station program It describes the origins constituencies and goals of the various groups in the movement and reviews their tactics successes and the opportunities they may have missed

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