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Soviet Research on Crystal Channeling of Charged Particle Beams (Rand Report)

Kassel, Simon

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Soviet Research On Crystal Channeling Of Charged Particle Beams

**Walther Stütze, Bhupendra
Jasani, Regina Cowen Karp**



Soviet Research On Crystal Channeling Of Charged Particle Beams:

Soviet Research on Crystal Channeling of Charged Particle Beams Simon Kassel, Rand Corporation, 1985 This report presents an overview of Soviet research in charged particle beam channeling in crystals from 1972 to the present and the resulting electromagnetic emission including Soviet proposals for channeling emission lasers in the x ray region of the spectrum It analyzes Soviet attitudes toward crystal channeling of charged particles as a subject of research describes performers of the research and indicates the level of effort involved It presents a brief history of crystal channeling research the differences between channeling and other kinds of electromagnetic radiation the definition of the main research issues and estimates of the potential capabilities of channeling radiation all based on the Soviet viewpoint It then describes Soviet proposals for laser systems utilizing the channeling radiation mechanism and analyzes Soviet experimental work involving the observation and measurement of channeling radiation The author concludes that the outstanding feature of Soviet research in this area is the optimistic belief of Soviet specialists in the technological potential of this research but finds that the role of the laser proposals in Soviet planning is ambiguous Scientific and Technical Aerospace Reports ,1986

Energy Research Abstracts ,1995 **ERDA Energy Research Abstracts** ,1983 *Rand Research Review* ,1982

Soviet Armed Forces Review Annual ,1987 The ABM Treaty Walther Stütze, Bhupendra Jasani, Regina Cowen Karp, 1987 The current debate on the Anti Ballistic Missile Treaty a matter of considerable significance for East West relations and international security is examined by thirteen authors selected from the international community for their expertise In the introduction the three editors from the Stockholm International Peace Research Institute highlight the complexities of the problems involved and identify possible solutions Ambassadors Gerard Smith and Vladimir Semenov the two negotiators of the 1972 Treaty give their views and subsequent papers address the significance of the current US and Soviet interpretations of such issues as space based defences The grey areas in the Treaty are highlighted and the much neglected implications for the international community in general and the small nuclear powers and alliances in particular are presented *Soviet Development of Gyrotrons* Simon Kassel, Rand Corporation, 1986 This report surveys the

development of high power cyclotron resonance masers CRM and gyrotrons in the Soviet Union based on Soviet open source literature It deals with the nature and history of relativistic CRM devices provides a sequence of the most important issues of gyrotron research and development as perceived by Soviet authors and discusses individual Soviet research groups the basic organizational units responsible for the CRM and gyrotron research and development The study suggests among other things that high power relativistic microwave electronics is one of the most successful areas of Soviet R it has managed to overcome the systemic weakness of the Soviet R and it has become the fastest growing area of application of pulsed power technology which itself has been for many years the subject of priority development in the Soviet Union Soviet Air Defence Missiles Steve Zaloga, 1989 Beskriver Sovjetunionens luftforsvarsraketsystemer op til 1989 **Energy Research Abstracts** ,1988

Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information
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Corporation,1984 Includes publications previously listed in the supplements to the Index of selected publications of the Rand
Corporation Oct 1962 Feb 1963 Physics Briefs ,1989 *A New Force in the Soviet Computer Industry* Simon
Kassel,1986 In 1983 the USSR Academy of Sciences established a new top level administrative unit in its table of
organization the Department of Informatics Computer Technology and Automation The creation of the new department
involving the transfer of research institutes from other departments of the Academy the founding of new institutes and the
planning of a complex network of research projects encompassing the Academy and the computer industry amounts to a
major reorganization of the Academy of Sciences in the computer field This Note provides an assessment of this
reorganization its probability of success in affecting the future progress of Soviet computer technology and its implications
for the development of Soviet high technologies in general Among his conclusions the author finds that the weakness of
Soviet computer technology is essentially an industrial problem and not a scientific one **Soviet Physics, Doklady** ,1990
INIS Atomindex ,1987

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