

Development of solid propellant technology in India

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Abstract. Space research in India started in 1963 when a two-stage rocket was launched from Thumba on 23 November 1963. On the active passing away of Dr. Vikram Sarabhai, the inception of the Indian space programme, Prof. Satish Dhawan became the second chairman of ISRO. His stewardship was a through to working towards the launching of several M & C rockets and growth of several test centres. Major breakthroughs in many systems were made during this period. High energy composite solid propellants were developed, characterised and processed at the Vikram Sarabhai Space Centre and at the Belvedere Centre. Events that marked such as test-20, Padma and other test these propellants were also developed in test as part of the indigenous programme. The Satellite Launch Vehicle (SLV-3) conceived at the early committee, was fitted with four stage motor filled with solid propellant made in native test process. These facilities, including critical process equipment, have come up as a result of ISRO's indigenous efforts. The test plant structure established further supported to produce large propellant grains to meet the needs of the Polar Satellite Launch Vehicle (PSLV).

Keywords: Solid propellant; composite propellant; rocket motor; propellant burner.

India took her first step into the space age in 1963, when the Government of India initiated the study of the subject of space research and practical applications of space space to the Department of Atomic Energy (DAE). Not long, but with the Indian National Committee on Space Research (INCOSPAR) to organize the space programme. On 23 November 1963 a three stage PSLV-A rocket was successfully launched from Thumba and the Thumba Experimental Rocket Launching Station (TERLS) became operational, thereby heralding the dawn of the Indian Space Programme. The Indian Space Research Organisation (ISRO) came into being in 1969. In 1972 the Government of India set up the Space Commission and joined the Department of Space with other under the patron.

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A. Bahman



Development Of Solid Propellant Technology In India:

Sādhanā ,1988 International Aerospace Abstracts ,1999 **India in Space: Between Utility and Geopolitics**

Marco Aliberti,2018-01-17 This book presents the renewing strategic vision and progressive diversification of the Indian space programme at the nexus socio economic development commerce and geopolitics It disentangles India s evolving rationales for engaging in space from a wide range of perspectives and provides novel and in depth assessment of the domestic regional and international factors influencing the pace and directions of the country s space programme The study hence includes an extensive analysis of India s path forward including a reflection on the long term evolution of its civil military and commercial space efforts as well as considerations on the toolbox India has at its disposal on the prospected adaptation of the space ecosystem and on the implications these evolutions may generate both domestically and internationally A central part of this final analysis is more specifically devoted to elaborating on the prospects and opportunities for European stakeholders with the goal of identifying possible domains of closer and mutually beneficial Europe India space cooperation and sorting out possible elements for a comprehensive European long term strategy towards India Science & Technology for UPSC & State PSC Civil Services Prelim & Main Exams Disha Experts,2020-04-06

Information India, 1989-90 S. P. Agrawal,Suren Agrawal,J. C. Aggarwal,1990 Handbook of Technology Management in Public Administration David Greisler,Ronald J. Stupak,2006-11-15 All organizations whether for profit not for profit or government face issues of information technology management While the concerns involved may differ from organization to organization the principles of good information technology management remain the same Using a compilation of articles on various topics relating to technology manage The Cultural Heritage of India: Science and technology. Reprint, 1991 ,1991 The Journal of the Aeronautical Society of India Aeronautical Society of India,1991 Science and Society S. C. Datt,S. B. Srivastava,1985 **Guide to Science and Technology in the Asia/Pacific Area** D. Alsmeyer,A. G. Atkins (Ph.D.),1979 India, a Reference Annual ,1989 **Science and Technology in India** A. Bahman,1973 The Times of India Directory and Year Book Including Who's who Sir Stanley Reed,1983 Issues for 1919 47 include Who s who in India 1948 Who s who in India and Pakistan **Science and Technology in India, Pakistan, Bangladesh and Sri Lanka** Abdur Rahman,1990 **The Times of India Directory and Year Book Including Who's who** ,1983 **Indian and Pakistan Year Book and Who's who** Sir Stanley Reed,1984 Issues for 1919 47 include Who s who in India 1948 Who s who in India and Pakistan **Defence Journal** ,2008 **Strategic Digest** ,2004 **South Asian Studies** ,1995 **India 2001** Hanna Myer,1995 India 2001 Reference Encyclopedia The Second Of The Three Volume Encyclopaedia On India Encompassing Over 5000 Years It Is A Veritable Guide To All Facets Of The New Emerging India As Well As Eternal India The Bedrock Of Indian Civilization And Culture Illustrations On First And Back End Cover Pages Lavishly Illustrated Condition Good

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