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WEST ASIA: TRACING THE SCIENTIFIC AND TECHNICAL HISTORIES OF A REGION AT THE CROSSROADS OF CIVILIZATIONS

Abstract

The scientific and technological history of state space operations and programmes in West Asia from the middle of the 20th century to the present are thoroughly analysed in this research. The region is home to a wide variety of space projects, with numerous nations—including Iran, Israel, and Turkey—contributing significantly to space exploration and research.

The study looks at the technological, political, and economic forces that have influenced the growth of West Asian space programmes. It examines how geopolitical factors, financial restraints, and scientific and technological advancements have affected country space projects. The paper also highlights the crucial role that international partnerships and cooperation have had in the expansion and accomplishment of national space programmes.

The following section of the report gives a thorough summary of each West Asian nation's contributions to science and technology. It talks about developing rocket launchers, sending communication and remote sensing satellites into orbit, and exploring the moon and other planets. The study illustrates the particular difficulties that every nation has encountered when establishing its space programmes and the creative strategies they have used to overcome these difficulties. The future of space activities and projects in West Asia is also covered in the study, along with the difficulties and chances that lie ahead. It looks at how regional collaborations might be expanded to increase the impact of space programmes, as well as the role that space programmes can play in tackling global concerns like climate change and environmental degradation.

Overall, the paper provides a comprehensive analysis of the scientific and technical histories of national space activities and programs in West Asia, highlighting the achievements, challenges, and future prospects of the region's space programs. The paper aims to provide a valuable resource for scholars, policymakers, and practitioners interested in the history and development of space programs in West Asia.