

RAND

*The Dynamics of Growth
in Worldwide Satellite
Communications Capacity*

Michael G. Mattock

Project AIR FORCE

The Dynamics Of Growth In Worldwide Satellite Communications Capacity

JA Banks



The Dynamics Of Growth In Worldwide Satellite Communications Capacity:

The Dynamics of Growth in Worldwide Satellite Communications Capacity Michael G. Mattock, 2002 The Department of Defense does not own all the satellite communications capacity it needs worldwide and must purchase capacity from commercial vendors Understanding what contributes to growth in satellite communications capacity and predicting that growth would be useful to planners in their decisions to lease or buy capacity The author shows that the market can adjust swiftly to a surge in demand and thus there may be little need to buy satellite capacity in advance simply to ensure that capacity will be there if needed *The Dynamics of Growth in Worldwide Satellite Communications Capacity*, 2002 The Department of Defense DoD cannot afford to own all the satellite communications capacity it might possibly need in all areas of the world As noted in a previous RAND report Bonds et al 2000 DoD planners estimate that they will need to provide about 16 Gigabits per second Gbps of bandwidth by 2010 to effectively support a joint service operation However given current procurement plans the DoD will only own only one eighth of its projected desired capacity Therefore for the foreseeable future the DoD will need to buy at least some of its communications capacity from commercial vendors An ability to understand what drives growth in worldwide satellite capacity and to predict capacity would be useful to military communications planners in making decisions in advance to purchase and lease communications capacity in various parts of the world In the empirical analysis in this report we show that there is a strong relationship between growth in total satellite communications capacity and economic growth as measured by Gross Domestic Product GDP Adjustment to change is quite rapid if there is an imbalance in the long run equilibrium between supply and demand we estimate that on average 25 percent of the adjustment is made within one year although there is some regional variation The analysis indicates that the market can adjust swiftly to a surge in demand and thus there may be little need to buy satellite capacity in advance simply to ensure that capacity will be there if needed **Handbook on Geographies of Technology** Barney Warf, 2017-02-24 This Handbook offers an insightful and comprehensive overview from a geographic perspective of the numerous and varied technologies that are shaping the contemporary world It shows how geography and technology are intimately linked by examining the origins growth and impacts of 27 different technologies and highlighting how they influence the structure and spatiality of society [Selected Rand Abstracts](#) Rand Corporation, 2002 Includes publications previously listed in the supplements to the Index of selected publications of the Rand Corporation Oct 1962 Feb 1963 **FCC Record** United States. Federal Communications Commission, 2008 **Handbook on Satellite Communications** International Telecommunications Union, 2002-04-04 An essential overview of satellite communications from the organization that sets the international standards Since their introduction in the mid 1960s satellite communications have grown from a futuristic experiment into an integral part of today's wired world Satellite communications are at the core of a global automatically switched telephony network Assembled by the International Telecommunication Union the international organization that

sets the standards for this rapidly growing industry the Handbook on Satellite Communications Third Edition brings together basic facts about satellite communications as related to the fixed satellite service FSS It covers the main principles technologies and operation of equipment in a tutorial form Updated to include the latest technologies and information the Third Edition provides both the standards and technical information needed to implement and interact with satellite communication systems including The components and basic characteristics of a satellite communication system Regulatory considerations and system planning SDH and ATM satellite transmissions Analog and digital baseband signal processing and multiplexing Carrier modulation techniques Geostationary and non geostationary systems Interconnection of satellite and terrestrial networks LEOS satellite networks and other recent developments As digital modulation and transmission replace analog techniques and as satellites in non geostationary and lower altitude orbits open the way to new applications satellite communications will continue to grow in use and importance Everyone involved in the administration and operation of satellite communications will find this a crucial resource *The Future Of Satellite Communications* George A Coddington, 2019-07-11 This book emphasizes U S policy considerations in as much as the U S has been at the forefront of satellite technology and its application It addresses the impact of the earlier U S policy of global monopoly on the development of international satellite systems *International Business and Information Technology* Gerald Karush, Masood Samii, 2004-04-15 International Business Information Technology is a breakthrough text that analyses the relationship between international business operations and information technology **Summary of Hearings** United States. Congress. House. Select Committee on Astronautics and Space Exploration, 1959 **International Communications Services** United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Communications, 1977

The Dynamics Of Growth In Worldwide Satellite Communications Capacity Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **The Dynamics Of Growth In Worldwide Satellite Communications Capacity**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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