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# THE EDUCATIONAL AND SOCIAL USE OF COMMUNICATIONS SATELLITES

A BIBLIOGRAPHY



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**THE EDUCATIONAL AND SOCIAL USE  
OF COMMUNICATIONS SATELLITES**

**A BIBLIOGRAPHY**

**Compiled  
by  
Katherine Shervis  
EDSAT Librarian**

Computer Programming  
by  
Richard G. Wolfe and Roger Voytecki

(EDSAT Publication Series, Number 1)

**EDSAT Program  
The University of Wisconsin  
Madison, Wisconsin**

**May 1970**

**The  
E ducational  
D iffusion and the  
S ocial  
A pplication of Satellite  
T elecommunications**

Initiated in 1967, EDSAT is concerned with the educational and humanistic uses of satellite communications, particularly in the area of multicultural teaching and learning. EDSAT is also concerned with the technical design of educational satellite systems, but follows the principle that carefully determined criteria for utilization should precede technical design, and the technology of software should have equal weight with the technology of hardware in developing a total system.

EDSAT's primary substantive objectives:

- A. To search out, analyze and define the possible applications of space telecommunications technology to education; and particularly the continuing education of adults in a multicultural context.
- B. To establish, in collaboration with potential users, practical as well as optimum uses and purposes of systems of multicultural adult education via satellite telecommunications.
- C. To determine by hypothesis, demonstration, test and evaluation the models for teaching and learning that will be effective in achieving the uses and purposes of multicultural adult education that will be consistent with the technology employed, and that will encourage teaching input and learning outcomes from all the points in the system.
- D. To participate in the development, with potential users and appropriate international authorities, of a model agreement between countries which will preserve, protect and regulate a band of satellite telecommunications for multicultural adult education, and delineate the responsibilities of the signatories thereto.

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## CONTENTS

INTRODUCTION TO EDSAT .....	2
INTRODUCTION .....	3
GUIDE TO USE .....	4
RECORD IDENTIFICATION INDEX.....	6
AUTHOR INDEX .....	17
PERMUTED INDEX.....	29
BIBLIOGRAPHIC SEARCH RECORD.....	42

# Introduction to EDSAT

*"Humanistically viewed, technology is not an end in itself but a means to an end, the end being determined by man himself in accordance with the laws prevailing in his society. . . . How in future to make wiser use of technology is perhaps the paramount public issue. . . ."*

—Vice Admiral Hyman G. Rickover, 1969

Interdependence among the nations of the world is a modern imperative, yet meaningful cooperation is difficult among nations having diverse aims and greatly different levels of development. The effects of such pressing problems as hunger, disease, illiteracy, ignorance and social or political instability, while rooted in the historical, social and economic aspects of a particular culture and country, are no longer confined there, but spill over to affect every other nation and culture.

Concurrently, knowledge and technology advance at unprecedented rates in highly developed countries, while less-developed countries fall farther behind despite efforts to reduce disparities. There is need for an education-communication system that will accelerate the sharing of the world's knowledge resources at a rate more nearly approaching the speed by which knowledge and technology grow. Such a system could link researchers from different countries for the person-to-person spreading of available knowledge and energizing of knowledge-seeking behaviors in countries where knowledge and technology grow slowly.

Communication by satellite offers the best hope for achieving rapid, person-to-person interaction between scholars, educators and researchers of many countries simultaneously, so that the world's knowledge resources can be shared rapidly enough to halt, and perhaps eventually reduce, the widening education disparities among nations.

Many of the nations most in need of opportunities to share in the spread of knowledge and technology do not have adequate terrestrial communication systems. Hence, any communication system that diffuses education across nations or cultures can be effective only if it provides equal access to all who wish to use it at low cost and at a minimal level of user technology. Therefore, it is proposed that satellites, such as the NASA ATS vehicles, which offer small terminal access capability, be employed in a series of experiments in multicultural education.

EDSAT is working towards its objectives through the following activities:

- A. To organize at The University of Wisconsin a multidisciplinary agency focused on studying multicultural systems for education and communications whose function it will be to carry on short- and long-range studies, research, teaching, service and operating activities, including the formation of a consortium of universities.
- B. To develop and test a system (or systems) of small terminal, points-to-points communication via satellite that will function satisfactorily first between universities in various parts of the world, and later between learner sites more remote from centers of learning; and to aid in the development of information networks using the capabilities of the satellite in systematic connection with other media.
- C. To develop bibliographic services for the use of specialists, students and others who are seeking relevant information on multicultural education (for domestic or foreign application) and the potential uses of satellites in education for adults.
- D. To carry out an experimental series of conferences held via satellite:
  1. To determine, with the help of professionals in many countries (anthropologists, sociologists, educators, scientists, political scientists, lawyers, humanists, economists, psychologists), the uses and purposes of satellite-transmitted continuing education for adults.
  2. To determine the technical parameters of the satellite communications system, involving specialists from many countries in broadcasting, engineering, economics, space science and telecommunications.
- E. To participate in face-to-face conferences for the drafting of reports and recommendations to the UN, UNESCO, and other appropriate agencies.
- F. To publish background, informational, bibliographic and research materials regarding education via satellite.
- G. Through the center for studies of multicultural systems for education and communication to institute courses, curricula, research studies and experimental activities for the preparation of graduate students in several related fields for work in the field of multicultural adult education and communication.
- H. To develop a technology of software teaching-learning materials and processes that will function in multicultural education, domestic or foreign.

This first bibliography is therefore only a small beginning in the effort to bring the humanism, and the academic resources of The University of Wisconsin, and of other institutions in other cultures, to bear upon the problems of using a great technological tool—the communication satellite—as a means to those larger ends whose pursuit may begin to bring men and cultures closer together in understanding instead of separating them in ignorance and fear of exploitation.

EDSAT Executive Committee  
February, 1970  
Madison, Wisconsin

## INTRODUCTION

During EDSAT's formative stages, the co-principal investigators, Charles A. Wedemeyer and Richard G. Lawson, with the help of a librarian, Mary Thoenig, began a large-scale search of the published literature. The original bibliographic search was intended to turn up and define the scope and diversity of the issues, problems and ideas that bear upon the educational and social uses of telecommunication satellites. The present bibliography developed from this massive search of the periodical literature as it is represented in the major social science and aerospace science secondary sources.

Nearly all of man's social and much of his engineering knowledge relates to the potential revolution presented by this new communication technology. With such diverse information available and relevant, it proved best to create a more widely useful bibliographic source, by proceeding topic by topic, using a storage/retrieval procedure which would later allow us to remesh the disassociated parts into something resembling the original body of thought.

This, EDSAT's first bibliography, deals with a topic limited to only those books, journal articles, newspaper clippings and conference papers that concern themselves specifically with the social and educational uses and implications of satellite communications. It does not include basic educational and social science background materials that bear heavily upon the problem, but that do not specifically discuss their relation to the use of satellites; nor does it include basic technological background materials that do not treat the educational or social uses of the satellites.

This bibliography is not yet complete, either in its content, or in its use of the potential of EDSAT's bibliographic operation and storage/retrieval procedures.

From the very beginning of the bibliographic project, articles of special interest have been abstracted and categorized, making use of the various University of Wisconsin libraries for materials.

The recent introduction of machine and computer processing to the EDSAT bibliographic operation is turning the manually kept record into an information retrieval system of some flexibility. The technique selected involves computer permutation of the words represented in the title of the reference. These words then form a subject index. Permuted indexing is limited by the choice of words within the title and is often meaningless, especially in the humanities and social sciences, where precise, descriptive titles are not always used. The procedure that EDSAT is using allows for the supplementation of these imprecise or inadequate titles through the use of key words. These words function both as a telegraphic rewriting of the title for indexing purposes and as a supplement to the abstract. For further in-depth retrieval, the program allows for subject categorization—the thesaurus approach—and the scansion of the abstract itself.

None of these potentials, except the permuted indexing of the unmodified titles, has been attempted in the first bibliography. Hopefully, its publication and dissemination will stimulate an influx of information and materials which will lead to a more complete and timely record.

This bibliography is the first in a series. The second bibliography, presently being compiled and abstracted, will bring together works on conferencing, with a special attempt to identify works on teleconferencing and the difficulties of the non-face-to-face situation and of its implications for cross-cultural communication. The conferencing bibliography will make full use of machine processing potential, as will the third in the series—the updating and expanding of this bibliography.

Since any bibliography that has been delayed in publication is by that fact out-of-date, a record of the bibliographic search appears at the back.

EDSAT gratefully acknowledges the cooperation and financial assistance of the United States National Aeronautics and Space Administration, the Johnson Foundation, The University of Wisconsin Graduate School, University Extension, and Space Science and Engineering Center.

EDSAT is indebted to Richard G. Wolfe and Roger Voytecki who, in collaboration with Donald Miller, made available their General Indexing System for production of the indexes printed. Mr. Wolfe originated the design of the index system and Mr. Voytecki made refinements and additions suited to the needs of EDSAT.



# GUIDE TO THE USE OF THE BIBLIOGRAPHY

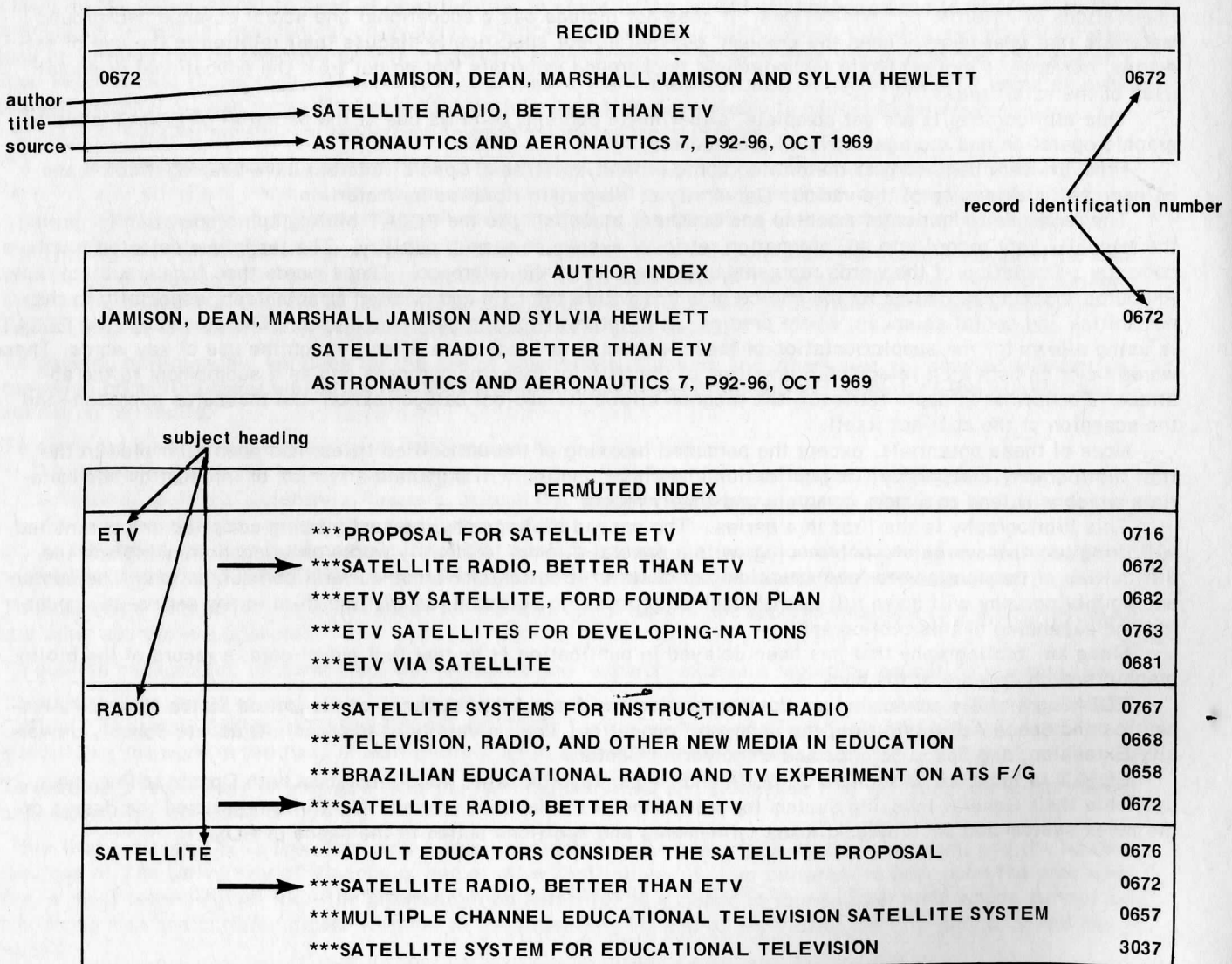
The bibliography is made up of three parts, the Record Identification Index, the Author Index and the Permuted Index.

The Record Identification Index, noted on the print-out as the RECID INDEX, is a basic list of 147 references to books, parts of books, journal articles, conference papers, news items and unpublished papers. They appear in the order of accession, with the accession number—the record identification number—printed out at left and right of each citation. Each citation is in turn made up of three parts, the author, the title and the source.

The Author Index relists the entire record alphabetically by author's surname or by the corporate body of authorship. News items with no stated authorship are listed as "No Author" and appear among the N's.

The Permuted Index serves as the subject index. It is a KWOC (Key Word Out of Context) index which is generated by the computer permutation of the words within the titles. A KWOC index is based on the same principles as is a KWIC (Key Word in Context) index, but is printed out in a more readable format. While a KWIC index prints out only one line of the title, focusing upon the word being permuted within the context of the phrase, the KWOC index prints out the word to the left, repeating the entire title and the record identification number to the right. Each word of the title then serves as a subject heading after which all titles containing that word are listed.

The full reference in the examples below appears in the Recid Index in its numeric position between 0671 and 0673, is repeated fully in the Author Index listed under JAMISON, DEAN, and finally, its title and record identification number appear under the subject headings, SATELLITE, RADIO and ETV. The title does not appear under the headings, BETTER and THAN because these and other trivial words such as articles, prepositions, adverbs and verbs are programmed to be rejected by the computer for permutation. In consulting the Permuted Index, the user will find only the title and the record identification number, and with the help of this number, will have to refer back to the Recid Index for full identification of the citation.



The citations themselves are divided into the three categories of author, title and source.

The author statement is simply the identification of the individual, individuals or corporate bodies responsible for the work's intellectual content. The authors can be listed in such a way that the computer program will list the citation in the Author Index under more than one author. We have made use of this capacity to enrich the Author

Index with second authors or identifying phrases. The author of citation 0713 is the President's Task Force on Communication Policy, but since the report cited is known popularly as the Rostow Report, we have added that phrase separated by three asterisks. This citation will appear twice in the Author Index, once under each statement.

AUTHOR INDEX	
PRESIDENT'S TASK FORCE ON COMMUNICATION POLICY *** ROSTOW REPORT	0713
ROSTOW REPORT *** PRESIDENT'S TASK FORCE ON COMMUNICATION POLICY	0713

The titles are altered in several ways to suit computerization. First, commas and periods are substituted where colons, semicolons and question marks had occurred, since these marks are not represented on key punching equipment. Second, hyphens are used as a device to link two or more words so that they will be treated as a one-word unit for permutation by the computer. This is done simply to limit the occurrence of less meaningful subject headings. The phrases DEVELOPING-AREAS, DEVELOPING-NATIONS and DEVELOPING-STATES are adequately represented by their appearance under the heading DEVELOPING, and the headings AREAS, NATIONS and STATES need not occur. The third alteration is more substantive in that the title is changed. Citation 0696 should most properly be divided as follows: author, UNESCO. Meeting of Experts on the Use of Space Communication for Broadcasting; title, *Report of the Meeting*; source, UNESCO Document COM/CS/68/1/7, March 25, 1968. However, where the title is merely *Report of the Meeting* or *Final Report*, it has been relegated to the initial position in the source and has been replaced by the name of the group presenting the report. The statement contains the key words which will then generate adequate subject coverage.

RECID INDEX		
0696	UNESCO	0696
MEETING OF EXPERTS ON THE USE OF SPACE COMMUNICATION FOR BROADCASTING REPORT OF THE MEETING. UNESCO DOCUMENT COM/CS/68/1/7 MARCH 25, 1968		

The sources vary from the simple imprint, containing the publishing information of place, publisher, date, such as in citation 0772, LEYDEN, A. W. SIJTHOFF, 1969, to statements contrived to explain the availability of the work as best we can. Somewhere in between fall journal articles. The style used for these sources shows the title, volume, paging and date.

RECID INDEX		
0676	GRINAGER, PATRICIA	0676
ADULT EDUCATORS CONSIDER THE SATELLITE PROPOSAL UNPUBLISHED PAPER, JAN 1967. 13P. AVAILABLE THROUGH ERIC ED 023 967		

JOURNAL CITATION		
0683	AUDIOVISUAL INSTRUCTION 12, P921-22, NOV 1967	0683
	journal title                      volume                      paging                      date	

Some of the citations are analytics, with each chapter listed separately. The source shows the paging for the chapter or article, and the full citation of the book in which it appears.

ANALYTIC CITATION		
0617	PAGES 61-73 IN UNESCO. COMMUNICATION IN THE SPACE AGE, THE USE OF SATELLITES BY THE MASS MEDIA. PARIS, UNESCO, 1968.	0617
paging	→	
author	→	
	imprint	title

The source for papers presented at conferences states at least the conference title, place, and date, and offers the paging and imprint when the proceedings have been published. The source for the papers presented at the United Nations Conference on the Exploration and Peaceful Uses of Outer Space, Vienna, 1968 (citations 3034-3119), states the title of the conference, the document coding used by the U.N. and the date of presentation. These materials are not available as a published record of the proceedings, but are beginning to appear in the periodical literature as separately published articles. Reference to them should be made in *International Aerospace Abstracts* as they appear in the published literature.

Unfortunately, it is impossible for EDSAT to provide reprints of these and other papers. We urge the user of EDSAT's bibliographies to seek out materials through arrangements with regular library and information facilities.



- 0606 ACKERMAN, EDWARD A. 0606  
 NATIONAL CONSIDERATIONS  
 UNPUBLISHED PAPER FROM THE NAS SATELLITE SUMMER STUDY CENTRAL REVIEW COMMITTEE BRIEFING, WOODS  
 HOLE, MASS. JULY 31, 1968
- 0607 GOODMAN, JULIAN 0607  
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- 0613 SCHRAMM, WILBUR 0613  
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 PARIS, UNESCO, 1968
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 RESPONSIBLE PRESENTATION OF THE NEWS IN THE SPACE-ERA  
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 PARIS, UNESCO, 1968
- 0616 RAY, IVOR 0616  
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 PARIS, UNESCO, 1968
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0669	DE MENDONCA, FERNANDO AND OTHERS SACI. SATELITE AVANÇADO DE COMUNICAÇÕES INTERDISCIPLINARES SÃO PAULO, BRAZIL, COMISSAO NACIONAL DE ATIVIDADES-ESPACIAIS, MAY 1968. IN PORTUGUESE	0669
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0671	JAMISON, DEAN, MARSHALL JAMISON AND SYLVIA HEWLETT CHOICE OF INSTRUCTIONAL MATERIAL FOR PROJECT SACI JUNE 1968. MIMED	0671
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## THE EDUCATIONAL AND SOCIAL USES OF COMMUNICATIONS SATELLITES

## REC'D INDEX

PAGE 9

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SATELLITE BROADCASTING. IMPLICATIONS FOR FOREIGN POLICY

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ADMINISTRATION	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
ADULT	*** ADULT EDUCATORS CONSIDER THE SATELLITE PROPOSAL	0675
ADVANCED	*** ASCEND. ADVANCED SYSTEM FOR COMMUNICATIONS AND EDUCATION IN NATIONAL DEVELOPMENT	0731
AERONAUTICS	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
AFRICA	*** THE POSSIBLE USE OF COMMUNICATION SATELLITES IN AFRICA	0624
AGE	*** SOME PRACTICAL APPLICATIONS OF SPACE AGE PROGRAMS FOR DEVELOPING-COUNTRIES	0667
AGREEMENTS	*** THE NEED FOR INTERNATIONAL AGREEMENTS	0531
AID	*** SATELLITE EDUCATIONAL TELEVISION, AN EFFECTIVE FORM OF FOREIGN AID	0754
ALTERNATIVES	*** ALTERNATIVES FOR INSTRUCTIONAL BROADCAST SATELLITES	0660
AMERICAN	*** MISSAC PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0666
	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
ANALYSIS	*** FREEDOM OF INFORMATION, SOME ANALYSIS AND A PROPOSAL FOR SATELLITE BROADCASTING	0729
	*** AN ECONOMETRIC ANALYSIS OF AN EDUCATIONAL TV DISTRIBUTION SYSTEM	0709
	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
ANNOTATED	*** DIRECT BROADCASTING FROM SATELLITES, ANNOTATED BIBLIOGRAPHY	0745
APPLICATION	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0653
APPLICATIONS	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
	*** SOME PRACTICAL APPLICATIONS OF SPACE AGE PROGRAMS FOR DEVELOPING-COUNTRIES	0667
APPROACH	*** SOCIAL BENEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107
ARRANGEMENTS	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
ARTIFICIAL	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
ASCEND	*** ASCEND. ADVANCED SYSTEM FOR COMMUNICATIONS AND EDUCATION IN NATIONAL DEVELOPMENT	0731
ASPECTS	*** TECHNICAL ASPECTS OF DIRECT BROADCASTING	0628
	*** SOME LEGAL ASPECTS OF TELEVISION TRANSMISSION BY SATELLITES	0520
ATOMIC	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
ATS	*** BRAZILIAN EDUCATIONAL RADIO AND TV EXPERIMENT ON ATS F/G	0658
AVAILABLE	*** OPPORTUNITIES AVAILABLE TO DEVELOPING-NATIONS THROUGH THE USE OF COMMUNICATION SATELLITES, THE DELHI PROJECT	3073
AVANÇADO	*** SAGI. SATELLITE AVANÇADO DE COMUNICAÇÕES INTERDISCIPLINARES	0659
BACKGROUND	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
BALANCE	*** ACHIEVING A BALANCE BETWEEN REGIONS	0623
BEGINNINGS	*** THE BEGINNINGS OF SATELLITE COMMUNICATIONS	0760
BENEFITS	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
	*** BENEFITS OF WORLD EXCHANGES	0618
	*** SOCIAL BENEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107
BIBLIOGRAPHY	*** DIRECT BROADCASTING FROM SATELLITES, ANNOTATED BIBLIOGRAPHY	0745
BUGOTA	*** CAVISAT REPORT OF BUGOTA WORKSHOP	0573
BRAZILIAN	*** BRAZILIAN EDUCATIONAL RADIO AND TV EXPERIMENT ON ATS F/G	0658
BROADCAST	*** DIRECT SATELLITE BROADCAST	0720
	*** RADIO INSTRUCTION VIA DIRECT BROADCAST COMMUNICATIONS SATELLITE	0701
	*** FIRST COLOUR TELEVISION TRANSMISSIONS VIA TELSTAR, A BROADCAST OF SKIN CONDITION FOR DOCTORS	0715
	*** ALTERNATIVES FOR INSTRUCTIONAL BROADCAST SATELLITES	0660
	*** THE ECONOMICS OF PROGRAMMING FOR INSTRUCTIONAL BROADCAST SATELLITES	0712
	*** THE VALUE OF INSTRUCTIONAL BROADCAST SATELLITES	0659
BROADCASTING	*** EXTENDING THE RANGE OF BROADCASTING	0622

BROADCASTING	*** FREEDOM OF INFORMATION, SOME ANALYSIS AND A PROPOSAL FOR SATELLITE BROADCASTING	0729
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION FOR BROADCASTING	0696
	*** SPACE COMMUNICATION AND BROADCASTING	3116
	*** TECHNICAL ASPECTS OF DIRECT BROADCASTING	0628
	*** SYSTEMS OF DIRECT BROADCASTING BY MEANS OF SATELLITES	3117
	*** DIRECT BROADCASTING FROM SATELLITES, ANNOTATED BIBLIOGRAPHY	0745
	*** SATELLITE BROADCASTING. IMPLICATIONS FOR FOREIGN POLICY	0744
	*** TELECOMMUNICATION SATELLITES AND THE EUROPEAN BROADCASTING UNION	0671
BROADCASTS	*** PROSPECTS OF EDUCATIONAL RADIO AND TV BROADCASTS VIA SATELLITE	0702
CAVISAT	*** CAVISAT REPORT OF BOGOTA WORKSHOP	0673
CHANNEL	*** MULTIPLE CHANNEL EDUCATIONAL TELEVISION SATELLITE SYSTEM	0657
CHOICE	*** CHOICE OF INSTRUCTIONAL MATERIAL FOR PROJECT SACT	0671
CLASSES	*** EDUCATION, CLASSES BY TV	0778
CLASSROOM	*** FIRST INTERCONTINENTAL TV CLASSROOM	0680
	*** INTERNATIONAL CLASSROOM LIKELY, BUT NOT YET	0678
COLOUR	*** FIRST COLOUR TELEVISION TRANSMISSIONS VIA TELSTAR, A BROADCAST OF SKIN CONDITION FOR DOCTORS	0715
COMMUNICATION	*** SOME POSSIBLE SOCIAL EFFECTS OF SPACE COMMUNICATION	0613
	*** SPACE COMMUNICATION AND BROADCASTING	3116
	*** SPACE COMMUNICATION AND THE MASS MEDIA	0724
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION BY THE MASS MEDIA	0721
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION FOR BROADCASTING	0696
	*** SPACE COMMUNICATION FOR DEVELOPING-COUNTRIES, INDIA AS AN EXAMPLE	0625
	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0698
	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
	*** SATELLITE COMMUNICATION FOR SCHOOLS	0717
	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
	*** COMMUNICATION IN THE SPACE-AGE, THE USE OF SATELLITES BY THE MASS MEDIA	0612
	*** A LOW COST COMMUNICATION SATELLITE EDUCATIONAL SYSTEM	0725
	*** COMMUNICATION SATELLITE FOR DEVELOPING-NATIONS	3555
	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0755
	*** SOCIAL AND EDUCATIONAL IMPLICATIONS OF COMMUNICATION SATELLITES	0677
	*** USE OF COMMUNICATION SATELLITES BY THE UNITED NATIONS	3055
	*** COMMUNICATION SATELLITES FOR EDUCATION, SCIENCE AND CULTURE	0723
	*** OPTIMAL UTILIZATION OF COMMUNICATION SATELLITES FOR EDUCATIONAL PURPOSES	0705
	*** COMMUNICATION SATELLITES FOR EDUCATIONAL TELEVISION	0762
	*** THE POSSIBLE USE OF COMMUNICATION SATELLITES IN AFRICA	0624
	*** WHAT COMMUNICATION SATELLITES MEAN TO THE DEVELOPING-COUNTRIES	0722
	*** OPPORTUNITIES AVAILABLE TO DEVELOPING-NATIONS THROUGH THE USE OF COMMUNICATION SATELLITES, THE DELHI PROJECT	3073
	*** A LOW COST COMMUNICATION SYSTEM FOR A DEVELOPING-NATION	0654
COMMUNICATIONS	*** LONG-TERM PROGRAMME FOR THE USE OF SPACE COMMUNICATIONS	0597
	*** THE BEGINNINGS OF SATELLITE COMMUNICATIONS	0750
	*** WORLD PEACE VIA SATELLITE COMMUNICATIONS	0749
	*** SPACE COMMUNICATIONS, A NEW INSTRUMENT FOR WORLD-ORDER	0686
	*** SATELLITE COMMUNICATIONS, AN INDIAN STUDY	0742
	*** ASCEND. ADVANCED SYSTEM FOR COMMUNICATIONS AND EDUCATION IN NATIONAL DEVELOPMENT	0731
	*** SATELLITE COMMUNICATIONS AND EDUCATIONAL TELEVISION IN LESS-DEVELOPED-COUNTRIES	0714
	*** COMMUNICATIONS BY SATELLITE	0769
	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
	*** COMMUNICATIONS POLICY	0728
	*** FINAL REPORT. PRESIDENT'S TASK-FORCE ON COMMUNICATIONS POLICY	0713
	*** SATELLITE COMMUNICATIONS RESEARCH NEWS	0750

COMMUNICATIONS	*** RADIO INSTRUCTION VIA DIRECT BROADCAST COMMUNICATIONS SATELLITE	0701
	*** THE WORLD OF THE COMMUNICATIONS SATELLITE	0735
	*** COMMUNICATIONS SATELLITE ACT OF 1962	0727
	*** FEASIBILITY STUDY OF A PILOT PROJECT USING A COMMUNICATIONS SATELLITE PRIMARILY FOR EDUCATIONAL TELEVISION	0633
	*** THE IMPACT OF COMMUNICATIONS SATELLITES	0755
	*** THE IMPACT OF COMMUNICATIONS SATELLITES ON THE LESS-DEVELOPED-AREAS	0738
COMSATS	*** COMSATS, GALLOPING TECHNOLOGY AND LAGGING POLICY	0739
COMMUNICACÖES	*** SACI. SATELLITE AVANÇADO DE COMUNICACÖES INTERDISCIPLINARES	0559
CONCEPTS	*** SYSTEM CONCEPTS FOR GLOBAL DATA RELAY VIA SATELLITE	0758
CONSIDERATIONS	*** NATIONAL CONSIDERATIONS	0606
CONTROL	*** INTERNATIONAL CO-OPERATION AND INTERNATIONAL CONTROL	0630
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
COST	*** A LOW COST COMMUNICATION SATELLITE EDUCATIONAL SYSTEM	0725
	*** A LOW COST COMMUNICATION SYSTEM FOR A DEVELOPING-NATION	0554
	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
	*** PENNY COST FORSEEN FOR EDUCATIONAL TELEVISION VIA SATELLITES	0726
COUNTRIES	*** MISSAG PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0566
CO-OPERATION	*** INTERNATIONAL CO-OPERATION AND INTERNATIONAL CONTROL	0630
CULTURAL	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
CULTURE	*** COMMUNICATION SATELLITES FOR EDUCATION, SCIENCE AND CULTURE	0723
DATA	*** SYSTEM CONCEPTS FOR GLOBAL DATA RELAY VIA SATELLITE	0758
DELHI	*** OPPORTUNITIES AVAILABLE TO DEVELOPING-NATIONS THROUGH THE USE OF COMMUNICATION SATELLITES, THE DELHI PROJECT	3073
DEVELOPING-COUNTRIES	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
	*** SOME PRACTICAL APPLICATIONS OF SPACE AGE PROGRAMS FOR DEVELOPING-COUNTRIES	0667
	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
	*** WHAT COMMUNICATION SATELLITES MEAN TO THE DEVELOPING-COUNTRIES	0722
	*** THE IDENTIFICATION OF INTERESTS AND NEEDS OF DEVELOPING-COUNTRIES IN OUTER SPACE	3119
	*** SPACE COMMUNICATION FOR DEVELOPING-COUNTRIES, INDIA AS AN EXAMPLE	0625
DEVELOPING-NATION	*** A LOW COST COMMUNICATION SYSTEM FOR A DEVELOPING-NATION	0554
DEVELOPING-NATIONS	*** COMMUNICATION SATELLITE FOR DEVELOPING-NATIONS	0656
	*** ETV SATELLITES FOR DEVELOPING-NATIONS	0763
	*** INFORMATION DISTRIBUTION SYSTEMS FOR DEVELOPING-NATIONS	0665
	*** OPPORTUNITIES AVAILABLE TO DEVELOPING-NATIONS THROUGH THE USE OF COMMUNICATION SATELLITES, THE DELHI PROJECT	3073
DEVELOPING-REGIONS	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
DEVELOPMENT	*** ASCEND. ADVANCED SYSTEM FOR COMMUNICATIONS AND EDUCATION IN NATIONAL DEVELOPMENT	0731
	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0698
	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741
	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
DIFFUSION	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0766
	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0663
DIRECT	*** RADIO INSTRUCTION VIA DIRECT BROADCAST COMMUNICATIONS SATELLITE	0701
	*** TECHNICAL ASPECTS OF DIRECT BROADCASTING	0628
	*** SYSTEMS OF DIRECT BROADCASTING BY MEANS OF SATELLITES	3117
	*** DIRECT BROADCASTING FROM SATELLITES, ANNOTATED BIBLIOGRAPHY	0745
	*** DIRECT SATELLITE BROADCAST	0720
DISTRIBUTION	*** DISTRIBUTION OF EDUCATIONAL TELEVISION BY SATELLITE	0707
	*** AN ECONOMETRIC ANALYSIS OF AN EDUCATIONAL TV DISTRIBUTION SYSTEM	0709
	*** EDUCATIONAL TELEVISION SATELLITE DISTRIBUTION SYSTEM FOR INDIA	0655
	*** INFORMATION DISTRIBUTION SYSTEMS FOR DEVELOPING-NATIONS	0665



DOCTORS	*** FIRST COLOUR TELEVISION TRANSMISSIONS VIA TELSTAR, A BROADCAST OF SKIN CONDITION FOR DOCTORS	0715
DOCUMENTATION	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0765
DOLLAR	*** A TRILLION DOLLAR MARKET	0708
ECONOMETRIC	*** AN ECONOMETRIC ANALYSIS OF AN EDUCATIONAL TV DISTRIBUTION SYSTEM	0709
ECONOMIC	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0698
ECONOMICS	*** THE ECONOMICS OF PROGRAMMING FOR INSTRUCTIONAL BROADCAST SATELLITES	0712
EDSAT	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0663
EDUCATE	*** PUTTING SPACE TO WORK TO EDUCATE THE WORLD	0752
EDUCATION	*** IMPLICATIONS OF SATELLITES FOR EDUCATION	0683
	*** POSSIBLE USES OF SATELLITES IN EDUCATION	0617
	*** SATELLITES FOR EDUCATION	0774
	*** SPACE SATELLITES AND EDUCATION	0685
	*** SPACE TELECASTING FOR WORLD EDUCATION	0711
	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741
	*** TELEVISION, RADIO, AND OTHER NEW MEDIA IN EDUCATION	0658
	*** TELSTAR AND EDUCATION	0679
	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0698
	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
	*** FOR INDIA'S VILLAGES, EDUCATION BY TV	0771
	*** EDUCATION, CLASSES BY TV	0778
	*** HIGHER EDUCATION FROM SATELLITES	0684
	*** ASCEND. ADVANCED SYSTEM FOR COMMUNICATIONS AND EDUCATION IN NATIONAL DEVELOPMENT	0731
	*** SATELLITES FOR EDUCATION, LESSONS FROM A DECADE OF EXPERIENCE WITH EDUCATIONAL TELEVISION	3038
	*** EDUCATION SATELLITE TECHNOLOGY	0770
	*** COMMUNICATION SATELLITES FOR EDUCATION, SCIENCE AND CULTURE	0723
	*** TELEVISION EDUCATION VIA SATELLITE	3055
	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0662
EDUCATIONAL	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0663
	*** SOCIAL AND EDUCATIONAL IMPLICATIONS OF COMMUNICATION SATELLITES	0677
	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
	*** OPTIMAL UTILIZATION OF COMMUNICATION SATELLITES FOR EDUCATIONAL PURPOSES	0706
	*** POSSIBILITY OF, AND PROFIT TO BE GAINED BY, USING SATELLITES FOR EDUCATIONAL PURPOSES	3035
	*** TELEVISION SATELLITES FOR EDUCATIONAL PURPOSES	0764
	*** PROSPECTS OF EDUCATIONAL RADIO AND TV BROADCASTS VIA SATELLITE	0702
	*** BRAZILIAN EDUCATIONAL RADIO AND TV EXPERIMENT ON ATS F/G	0658
	*** THE EDUCATIONAL SATELLITE TRANSMISSIONS	3048
	*** EDUCATIONAL SATELLITES	0776
	*** A LOW COST COMMUNICATION SATELLITE EDUCATIONAL SYSTEM	0725
	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
	*** COMMUNICATION SATELLITES FOR EDUCATIONAL TELEVISION	0762
	*** FEASIBILITY STUDY OF A PILOT PROJECT USING A COMMUNICATIONS SATELLITE PRIMARILY FOR EDUCATIONAL TELEVISION	0633
	*** SATELLITE SYSTEM FOR EDUCATIONAL TELEVISION	3037
	*** SATELLITES FOR EDUCATION, LESSONS FROM A DECADE OF EXPERIENCE WITH EDUCATIONAL TELEVISION	3038
	*** SATELLITE EDUCATIONAL TELEVISION, AN EFFECTIVE FORM OF FOREIGN AID	0754
	*** DISTRIBUTION OF EDUCATIONAL TELEVISION BY SATELLITE	0707
	*** SATELLITE EDUCATIONAL TELEVISION FOR UNDERDEVELOPED-COUNTRIES	0703
	*** SATELLITE COMMUNICATIONS AND EDUCATIONAL TELEVISION IN LESS-DEVELOPED-COUNTRIES	0714
	*** EDUCATIONAL TELEVISION SATELLITE DISTRIBUTION SYSTEM FOR INDIA	0655
	*** MULTIPLE CHANNEL EDUCATIONAL TELEVISION SATELLITE SYSTEM	0657



EDUCATIONAL	*** PENNY COST FORSEEN FOR EDUCATIONAL TELEVISION VIA SATELLITES	0725
	*** AN ECONOMETRIC ANALYSIS OF AN EDUCATIONAL TV DISTRIBUTION SYSTEM	0709
	*** SYSTEMS ENGINEERING STUDY OF A NATIONAL EDUCATIONAL TV SYSTEM	0704
EDUCATORS	*** ADULT EDUCATORS CONSIDER THE SATELLITE PROPOSAL	0676
EFFECTIVE	*** SATELLITE EDUCATIONAL TELEVISION, AN EFFECTIVE FORM OF FOREIGN AID	0754
EFFECTS	*** SOME POSSIBLE SOCIAL EFFECTS OF SPACE COMMUNICATION	0613
ENGINEERING	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
	*** SYSTEMS ENGINEERING STUDY OF A NATIONAL EDUCATIONAL TV SYSTEM	0704
ETV	*** PROPOSAL FOR SATELLITE ETV	0716
	*** SATELLITE RADIO, BETTER THAN ETV	0672
	*** ETV BY SATELLITE, FORD FOUNDATION PLAN	0682
	*** ETV SATELLITES FOR DEVELOPING-NATIONS	0763
	*** ETV VIA SATELLITE	0681
EUROPEAN	*** TELECOMMUNICATION SATELLITES AND THE EUROPEAN BROADCASTING UNION	0621
EVERYBODY	*** EVERYBODY IN INSTANT TOUCH	0732
EVERYDAY	*** THE IMPACT OF INFORMATION TRANSFER SATELLITES ON EVERYDAY LIVING	0759
EVOLUTION	*** EVOLUTION OF SATELLITES AND ORBITS	0627
EXCHANGE	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
EXCHANGES	*** BENEFITS OF WORLD EXCHANGES	0618
EXPERIENCE	*** SATELLITES FOR EDUCATION, LESSONS FROM A DECADE OF EXPERIENCE WITH EDUCATIONAL TELEVISION	3038
EXPLOITATION	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
EXTENDING	*** EXTENDING THE RANGE OF BROADCASTING	0622
EXTRA-TERRESTRIAL	*** EXTRA-TERRESTRIAL RELAYS	0777
FACTOR	*** HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING	0765
FEASIBILITY	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0698
	*** FEASIBILITY STUDY OF A PILOT PROJECT USING A COMMUNICATIONS SATELLITE PRIMARILY FOR EDUCATIONAL TELEVISION	0633
FLOW	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
FORD	*** ETV BY SATELLITE, FORD FOUNDATION PLAN	0682
FORECAST	*** PREDICTION, REALIZATION AND FORECAST	0614
FOREIGN	*** SATELLITE EDUCATIONAL TELEVISION, AN EFFECTIVE FORM OF FOREIGN AID	0754
	*** SATELLITE BROADCASTING. IMPLICATIONS FOR FOREIGN POLICY	0744
FOUNDATION	*** ETV BY SATELLITE, FORD FOUNDATION PLAN	0682
FREE	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
FREEDOM	*** FREEDOM OF INFORMATION, SOME ANALYSIS AND A PROPOSAL FOR SATELLITE BROADCASTING	0729
FRONTIER	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0662
FUTURE	*** PICTURE OF THE FUTURE	0737
GLOBAL	*** SYSTEM CONCEPTS FOR GLOBAL DATA RELAY VIA SATELLITE	0758
HIGHER	*** HIGHER EDUCATION FROM SATELLITES	0684
HUMAN	*** HUMAN FACTOR PROBLEMS IN SATELLITE-TELEPHONING	0765
IDENTIFICATION	*** THE IDENTIFICATION OF INTERESTS AND NEEDS OF DEVELOPING-COUNTRIES IN OUTER SPACE	3119
IMPACT	*** THE IMPACT OF COMMUNICATIONS SATELLITES	0755
	*** THE IMPACT OF COMMUNICATIONS SATELLITES ON THE LESS-DEVELOPED-AREAS	0738
	*** THE IMPACT OF INFORMATION TRANSFER SATELLITES ON EVERYDAY LIVING	0759
IMPLICATIONS	*** SATELLITE BROADCASTING. IMPLICATIONS FOR FOREIGN POLICY	0744
	*** SOCIAL AND EDUCATIONAL IMPLICATIONS OF COMMUNICATION SATELLITES	0577
	*** IMPLICATIONS OF SATELLITES FOR EDUCATION	0583
INDIA	*** EDUCATIONAL TELEVISION SATELLITE DISTRIBUTION SYSTEM FOR INDIA	0655
	*** SATELLITE TELEVISION, A SYSTEM PROPOSAL FOR INDIA	3034
	*** SATELLITE TV. INDIA AS A CASE STUDY	0718
	*** SPACE COMMUNICATION FOR DEVELOPING-COUNTRIES, INDIA AS AN EXAMPLE	0525
	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741

INDIA	*** FOR INDIA'S VILLAGES, EDUCATION BY TV	0771
	*** THE INDIA/ UNITED STATES TELEVISION EXPERIMENT	0745
INDIAN	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** SATELLITE COMMUNICATIONS, AN INDIAN STUDY	0742
INFORMATION	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
	*** TRANSFER OF INFORMATION BETWEEN LIBRARIES	0619
	*** INFORMATION DISTRIBUTION SYSTEMS FOR DEVELOPING-NATIONS	0665
	*** FREEDOM OF INFORMATION, SOME ANALYSIS AND A PROPOSAL FOR SATELLITE BROADCASTING	0729
	*** THE IMPACT OF INFORMATION TRANSFER SATELLITES ON EVERYDAY LIVING	0759
	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
INNOVATIONS	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0765
INSTRUCTION	*** SATELLITES FOR TELEVISION INSTRUCTION	0700
	*** SPACE-BASED INSTRUCTION	0740
	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
	*** RADIO INSTRUCTION VIA DIRECT BROADCAST COMMUNICATIONS SATELLITE	0701
INSTRUCTIONAL	*** ALTERNATIVES FOR INSTRUCTIONAL BROADCAST SATELLITES	0660
	*** THE ECONOMICS OF PROGRAMMING FOR INSTRUCTIONAL BROADCAST SATELLITES	0712
	*** THE VALUE OF INSTRUCTIONAL BROADCAST SATELLITES	0659
	*** CHOICE OF INSTRUCTIONAL MATERIAL FOR PROJECT SAGI	0671
	*** SATELLITE SYSTEMS FOR INSTRUCTIONAL RADIO	0767
	*** MISSAC PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0656
	*** INSTRUCTIONAL TELEVISION, PROMISE AND OPPORTUNITY	0675
INSTRUMENT	*** SPACE COMMUNICATIONS, A NEW INSTRUMENT FOR WORLD-ORDER	0685
INTEGRATION	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
INTERCONTINENTAL	*** FIRST INTERCONTINENTAL TV CLASSROOM	0680
INTERCULTURAL	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0662
INTERDISCIPLINARES	*** SAGI. SATELLITE AVANCAADO DE COMUNICACOES INTERDISCIPLINARES	0669
INTERESTS	*** THE IDENTIFICATION OF INTERESTS AND NEEDS OF DEVELOPING-COUNTRIES IN OUTER SPACE	3119
INTERNATIONAL	*** THE NEED FOR INTERNATIONAL AGREEMENTS	0631
	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
	*** INTERNATIONAL CLASSROOM LIKELY, BUT NOT YET	0678
	*** INTERNATIONAL CO-OPERATION AND INTERNATIONAL CONTROL	0630
	*** INTERNATIONAL CO-OPERATION AND INTERNATIONAL CONTROL	0630
	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0765
	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0662
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
	*** SOCIAL BENEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
LATIN	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
LAW	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
LEGAL	*** SOME LEGAL ASPECTS OF TELEVISION TRANSMISSION BY SATELLITES	0620
LESSONS	*** SATELLITES FOR EDUCATION, LESSONS FROM A DECADE OF EXPERIENCE WITH EDUCATIONAL TELEVISION	3038
LESS-DEVELOPED-AREAS	*** THE IMPACT OF COMMUNICATIONS SATELLITES ON THE LESS-DEVELOPED-AREAS	0733
LESS-DEVELOPED-COUNTRIES	*** SATELLITE COMMUNICATIONS AND EDUCATIONAL TELEVISION IN LESS-DEVELOPED-COUNTRIES	0714
LIBRARIES	*** TRANSFER OF INFORMATION BETWEEN LIBRARIES	0619
LINK	*** SATELLITES CAN LINK MANKIND	0735

LONG-TERM	*** LONG-TERM PROGRAMME FOR THE USE OF SPACE COMMUNICATIONS	3697
LOW	*** A LOW COST COMMUNICATION SATELLITE EDUCATIONAL SYSTEM	3725
	*** A LOW COST COMMUNICATION SYSTEM FOR A DEVELOPING-NATION	0654
	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
MANKIND	*** SATELLITES CAN LINK MANKIND	0736
	*** SOCIAL BEVEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107
MARKET	*** A TRILLION DOLLAR MARKET	0708
MASS	*** COMMUNICATION IN THE SPACE-AGE, THE USE OF SATELLITES BY THE MASS MEDIA	0612
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION BY THE MASS MEDIA	0721
	*** SPACE COMMUNICATION AND THE MASS MEDIA	0724
MATERIAL	*** CHOICE OF INSTRUCTIONAL MATERIAL FOR PROJECT SAGI	0671
MEDIA	*** COMMUNICATION IN THE SPACE-AGE, THE USE OF SATELLITES BY THE MASS MEDIA	0612
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION BY THE MASS MEDIA	0721
	*** SPACE COMMUNICATION AND THE MASS MEDIA	0724
	*** TELEVISION, RADIO, AND OTHER NEW MEDIA IN EDUCATION	0658
MEETING-OF-EXPERTS	*** RECOMMENDATIONS OF THE MEETING-OF-EXPERTS	0532
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION FOR BROADCASTING	0596
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION BY THE MASS MEDIA	0721
MEMORANDUM	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
MICHIGAN	*** MISSAC PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0666
MISSAC	*** MISSAC PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0666
MULTIPLE	*** MULTIPLE CHANNEL EDUCATIONAL TELEVISION SATELLITE SYSTEM	0657
MULTI-MISSION	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
NATIONAL	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** NATIONAL CONSIDERATIONS	0606
	*** ASCEND. ADVANCED SYSTEM FOR COMMUNICATIONS AND EDUCATION IN NATIONAL DEVELOPMENT	0731
	*** SYSTEMS ENGINEERING STUDY OF A NATIONAL EDUCATIONAL TV SYSTEM	0704
	*** USE OF COMMUNICATION SATELLITES BY THE UNITED NATIONS	3055
	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
NEED	*** THE NEED FOR INTERNATIONAL AGREEMENTS	0631
NEEDED	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3749
NEEDS	*** THE IDENTIFICATION OF INTERESTS AND NEEDS OF DEVELOPING-COUNTRIES IN OUTER SPACE	3119
NETWORK	*** TOWARD A SATELLITE UNIVERSITY NETWORK	0674
NEWS	*** SATELLITE COMMUNICATIONS RESEARCH NEWS	0750
	*** TELECOMMUNICATION AND THE TRANSMISSION OF NEWS	0616
	*** RESPONSIBLE PRESENTATION OF THE NEWS IN THE SPACE-ERA	0615
OF SATELLITE	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0663
OPPORTUNITIES	*** OPPORTUNITIES AVAILABLE TO DEVELOPING-NATIONS THROUGH THE USE OF COMMUNICATION SATELLITES, THE DELHI PROJECT	3073
OPPORTUNITY	*** INSTRUCTIONAL TELEVISION, PROMISE AND OPPORTUNITY	0675
OPTIMAL	*** OPTIMAL UTILIZATION OF COMMUNICATION SATELLITES FOR EDUCATIONAL PURPOSES	0706
ORBITS	*** EVOLUTION OF SATELLITES AND ORBITS	0627
ORDERING	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
OUTER	*** THE IDENTIFICATION OF INTERESTS AND NEEDS OF DEVELOPING-COUNTRIES IN OUTER SPACE	3119
	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
PEACE	*** WORLD PEACE VIA SATELLITE COMMUNICATIONS	0749
PEACEFUL	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629



PEOPLE	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
PICTURE	*** PICTURE OF THE FUTURE	0737
PILOT	*** A PILOT PROGRAM OF SOCIOLOGY FOR SATELLITE TV	0755
	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0698
	*** FEASIBILITY STUDY OF A PILOT PROJECT USING A COMMUNICATIONS SATELLITE PRIMARILY FOR EDUCATIONAL TELEVISION	0633
PLANNING	*** LOW COST EDUCATIONAL SYSTEMS FOR DEVELOPING-REGIONS. AN APPLICATION OF SYSTEMS ANALYSIS TO EDUCATIONAL PLANNING	0670
	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
POLICY	*** COMMUNICATIONS POLICY	0728
	*** COMSATS, GALLOPING TECHNOLOGY AND LAGGING POLICY	0739
	*** FINAL REPORT. PRESIDENT'S TASK-FORCE ON COMMUNICATIONS POLICY	0713
	*** SATELLITE BROADCASTING. IMPLICATIONS FOR FOREIGN POLICY	0744
POSSIBILITIES	*** TECHNICAL POSSIBILITIES FOR RADIO AND TELEVISION SERVICES BY SATELLITES	0625
	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0765
POSSIBILITY	*** POSSIBILITY OF, AND PROFIT TO BE GAINED BY, USING SATELLITES FOR EDUCATIONAL PURPOSES	3035
POTENTIAL	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
POTENTIALITIES	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
POTENTIALS	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0662
PRACTICAL	*** SOME PRACTICAL APPLICATIONS OF SPACE AGE PROGRAMS FOR DEVELOPING-COUNTRIES	0667
PREDICTION	*** PREDICTION, REALIZATION AND FORECAST	0614
PRESENTATION	*** RESPONSIBLE PRESENTATION OF THE NEWS IN THE SPACE-ERA	0615
PRESIDENT	*** FINAL REPORT. PRESIDENT'S TASK-FORCE ON COMMUNICATIONS POLICY	0713
PROBLEMS	*** HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING	0765
	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0662
PROFIT	*** POSSIBILITY OF, AND PROFIT TO BE GAINED BY, USING SATELLITES FOR EDUCATIONAL PURPOSES	3035
PROGRAMME	*** LONG-TERM PROGRAMME FOR THE USE OF SPACE COMMUNICATIONS	0697
PROGRAMMING	*** THE ECONOMICS OF PROGRAMMING FOR INSTRUCTIONAL BROADCAST SATELLITES	0712
PROGRAMS	*** SOME PRACTICAL APPLICATIONS OF SPACE AGE PROGRAMS FOR DEVELOPING-COUNTRIES	0667
PROJECTS	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
PROMOTING	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
RADIO	*** SATELLITE SYSTEMS FOR INSTRUCTIONAL RADIO	0767
	*** TELEVISION, RADIO, AND OTHER NEW MEDIA IN EDUCATION	0668
	*** TECHNICAL POSSIBILITIES FOR RADIO AND TELEVISION SERVICES BY SATELLITES	0625
	*** PROSPECTS OF EDUCATIONAL RADIO AND TV BROADCASTS VIA SATELLITE	0702
	*** BRAZILIAN EDUCATIONAL RADIO AND TV EXPERIMENT ON ATS F/G	0658
	*** SATELLITE RADIO, BETTER THAN ETV	0672
	*** RADIO INSTRUCTION VIA DIRECT BROADCAST COMMUNICATIONS SATELLITE	0701
RANGE	*** EXTENDING THE RANGE OF BROADCASTING	0622
READ	*** CAN THE UNITED STATES TEACH WHOLE WORLD TO READ	0751
REALIZATION	*** PREDICTION, REALIZATION AND FORECAST	0614
RECOMMENDATIONS	*** RECOMMENDATIONS OF THE MEETING-OF-EXPERTS	0632
REGIONS	*** ACHIEVING A BALANCE BETWEEN REGIONS	0623
RELATIONS	*** SOCIAL BENEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107
RELAY	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741
	*** SYSTEM CONCEPTS FOR GLOBAL DATA RELAY VIA SATELLITE	0758
RELAYS	*** EXTRA-TERRESTRIAL RELAYS	0777
RESEARCH	*** SATELLITE COMMUNICATIONS RESEARCH NEWS	0750
RESPONSIBLE	*** RESPONSIBLE PRESENTATION OF THE NEWS IN THE SPACE-ERA	0615
ROLE	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
SACI	*** CHOICE OF INSTRUCTIONAL MATERIAL FOR PROJECT SACI	0671



## THE EDUCATIONAL AND SOCIAL USES OF COMMUNICATIONS SATELLITES

PERMUTED INDEX

PAGE 37

SACI	*** SACI. SATELITE AVANÇADO DE COMUNICACOES INTERDISCIPLINARES	0669
SATELITE	*** SACI. SATELITE AVANÇADO DE COMUNICACOES INTERDISCIPLINARES	0669
SATELLITE	*** COMMUNICATIONS BY SATELLITE	0769
	*** DISTRIBUTION OF EDUCATIONAL TELEVISION BY SATELLITE	0707
	*** ETV VIA SATELLITE	0581
	*** PROSPECTS OF EDUCATIONAL RADIO AND TV BROADCASTS VIA SATELLITE	0702
	*** RADIO INSTRUCTION VIA DIRECT BROADCAST COMMUNICATIONS SATELLITE	0701
	*** STUDENTS VISIT VIA SATELLITE	0551
	*** SYSTEM CONCEPTS FOR GLOBAL DATA RELAY VIA SATELLITE	0758
	*** TEACHING BY SATELLITE	0753
	*** TELEVISION EDUCATION VIA SATELLITE	3055
	*** THE WORLD OF THE COMMUNICATIONS SATELLITE	0735
	*** COMMUNICATIONS SATELLITE ACT OF 1962	0727
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
	*** DIRECT SATELLITE BROADCAST	0720
	*** FREEDOM OF INFORMATION, SOME ANALYSIS AND A PROPOSAL FOR SATELLITE BROADCASTING	0729
	*** SATELLITE BROADCASTING. IMPLICATIONS FOR FOREIGN POLICY	0744
	*** STUDY OF THE FEASIBILITY OF LAUNCHING A PILOT PROJECT ON THE USE OF SATELLITE COMMUNICATION FOR EDUCATION AND ECONOMIC DEVELOPMENT	0598
	*** SATELLITE COMMUNICATION FOR SCHOOLS	0717
	*** THE BEGINNINGS OF SATELLITE COMMUNICATIONS	0760
	*** WORLD PEACE VIA SATELLITE COMMUNICATIONS	0749
	*** SATELLITE COMMUNICATIONS, AN INDIAN STUDY	0742
	*** SATELLITE COMMUNICATIONS AND EDUCATIONAL TELEVISION IN LESS-DEVELOPED-COUNTRIES	0714
	*** SATELLITE COMMUNICATIONS RESEARCH NEWS	0750
	*** EDUCATIONAL TELEVISION SATELLITE DISTRIBUTION SYSTEM FOR INDIA	0655
	*** A LOW COST COMMUNICATION SATELLITE EDUCATIONAL SYSTEM	0725
	*** SATELLITE EDUCATIONAL TELEVISION, AN EFFECTIVE FORM OF FOREIGN AID	0754
	*** SATELLITE EDUCATIONAL TELEVISION FOR UNDERDEVELOPED-COUNTRIES	0703
	*** PROPOSAL FOR SATELLITE ETV	0715
	*** COMMUNICATION SATELLITE FOR DEVELOPING-NATIONS	0555
	*** MISSAC PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0665
	*** ETV BY SATELLITE, FORD FOUNDATION PLAN	0682
	*** FEASIBILITY STUDY OF A PILOT PROJECT USING A COMMUNICATIONS SATELLITE PRIMARILY FOR EDUCATIONAL TELEVISION	0633
	*** ADULT EDUCATORS CONSIDER THE SATELLITE PROPOSAL	0576
	*** SATELLITE RADIO, BETTER THAN ETV	0572
	*** MULTIPLE CHANNEL EDUCATIONAL TELEVISION SATELLITE SYSTEM	0657
	*** SATELLITE SYSTEM FOR EDUCATIONAL TELEVISION	3037
	*** SATELLITE SYSTEMS FOR INSTRUCTIONAL RADIO	0767
	*** EDUCATION SATELLITE TECHNOLOGY	0770
	*** HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING	0765
	*** SATELLITE TELEVISION, A SYSTEM PROPOSAL FOR INDIA	3034
	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741
	*** THE EDUCATIONAL SATELLITE TRANSMISSIONS	3048
	*** A PILOT PROGRAM OF SOCIOLOGY FOR SATELLITE TV	0755
	*** SATELLITE TV. INDIA AS A CASE STUDY	0718
	*** TOWARD A SATELLITE UNIVERSITY NETWORK	0674
SATELLITES	*** ALTERNATIVES FOR INSTRUCTIONAL BROADCAST SATELLITES	0660
	*** EDUCATIONAL SATELLITES	0776
	*** HIGHER EDUCATION FROM SATELLITES	0684
	*** PENNY COST FORSEEN FOR EDUCATIONAL TELEVISION VIA SATELLITES	0725
	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0765
	*** SOCIAL AND EDUCATIONAL IMPLICATIONS OF COMMUNICATION SATELLITES	0677
	*** SOME LEGAL ASPECTS OF TELEVISION TRANSMISSION BY SATELLITES	0620

SATELLITES	*** SYSTEMS OF DIRECT BROADCASTING BY MEANS OF SATELLITES	3117
	*** TECHNICAL POSSIBILITIES FOR RADIO AND TELEVISION SERVICES BY SATELLITES	0626
	*** THE ECONOMICS OF PROGRAMMING FOR INSTRUCTIONAL BROADCAST SATELLITES	0712
	*** THE IMPACT OF COMMUNICATIONS SATELLITES	0755
	*** THE NEXT FRONTIER. POTENTIALS AND PROBLEMS OF INTERNATIONAL/ INTERCULTURAL EDUCATION VIA SATELLITES	0562
	*** THE VALUE OF INSTRUCTIONAL BROADCAST SATELLITES	0659
	*** SPACE SATELLITES AND EDUCATION	0685
	*** EVOLUTION OF SATELLITES AND ORBITS	0627
	*** TELECOMMUNICATION SATELLITES AND THE EUROPEAN BROADCASTING UNION	0621
	*** DIRECT BROADCASTING FROM SATELLITES, ANNOTATED BIBLIOGRAPHY	0745
	*** COMMUNICATION IN THE SPACE-AGE, THE USE OF SATELLITES BY THE MASS MEDIA	0612
	*** USE OF COMMUNICATION SATELLITES BY THE UNITED NATIONS	3056
	*** SATELLITES CAN LINK MANKIND	0736
	*** ETV SATELLITES FOR DEVELOPING-NATIONS	0763
	*** SATELLITES FOR EDUCATION	0774
	*** IMPLICATIONS OF SATELLITES FOR EDUCATION	0683
	*** SATELLITES FOR EDUCATION, LESSONS FROM A DECADE OF EXPERIENCE WITH EDUCATIONAL TELEVISION	3038
	*** COMMUNICATION SATELLITES FOR EDUCATION, SCIENCE AND CULTURE	0723
	*** OPTIMAL UTILIZATION OF COMMUNICATION SATELLITES FOR EDUCATIONAL PURPOSES	0706
	*** POSSIBILITY OF, AND PROFIT TO BE GAINED BY, USING SATELLITES FOR EDUCATIONAL PURPOSES	3035
	*** TELEVISION SATELLITES FOR EDUCATIONAL PURPOSES	0764
	*** COMMUNICATION SATELLITES FOR EDUCATIONAL TELEVISION	0762
	*** SATELLITES FOR TELEVISION INSTRUCTION	0700
	*** THE POSSIBLE USE OF COMMUNICATION SATELLITES IN AFRICA	0524
	*** POSSIBLE USES OF SATELLITES IN EDUCATION	0517
	*** WHAT COMMUNICATION SATELLITES MEAN TO THE DEVELOPING-COUNTRIES	0722
	*** THE IMPACT OF INFORMATION TRANSFER SATELLITES ON EVERYDAY LIVING	0759
	*** THE IMPACT OF COMMUNICATIONS SATELLITES ON THE LESS-DEVELOPED-AREAS	0738
	*** OPPORTUNITIES AVAILABLE TO DEVELOPING-NATIONS THROUGH THE USE OF COMMUNICATION SATELLITES, THE DELHI PROJECT	3073
	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
	*** APPLICATIONS OF ARTIFICIAL SATELLITES TO THE EDUCATION AND INSTRUCTION OF PEOPLE IN DEVELOPING-COUNTRIES	3105
SCHOOLS	*** SATELLITE COMMUNICATION FOR SCHOOLS	0717
SCIENCE	*** COMMUNICATION SATELLITES FOR EDUCATION, SCIENCE AND CULTURE	0723
SCIENTIFIC	*** POSSIBILITIES OF INTERNATIONAL DIFFUSION AND DOCUMENTATION OF SCIENTIFIC INNOVATIONS BY COMMUNICATION SATELLITES	0766
SERVICE	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
SERVICES	*** TECHNICAL POSSIBILITIES FOR RADIO AND TELEVISION SERVICES BY SATELLITES	0626
SEVENTIES	*** TELEVISION AND THE WORLD OF THE SEVENTIES	0607
SKY	*** VOICES FROM THE SKY	0699
	*** VOICES FROM THE SKY	0743
SOCIAL	*** SOCIAL AND EDUCATIONAL IMPLICATIONS OF COMMUNICATION SATELLITES	0677
	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0563
	*** SOCIAL BENEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107
	*** SOME POSSIBLE SOCIAL EFFECTS OF SPACE COMMUNICATION	0613
SOCIOLOGY	*** A PILOT PROGRAM OF SOCIOLOGY FOR SATELLITE TV	0756
SOUTH	*** MISSAC PROJECT. MICHIGAN INSTRUCTIONAL SATELLITE FOR SOUTH AMERICAN COUNTRIES	0666
SPACE	*** THE IDENTIFICATION OF INTERESTS AND NEEDS OF DEVELOPING-COUNTRIES IN OUTER SPACE	3119
	*** THE PROMISE OF SPACE	0733
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
	*** SOME PRACTICAL APPLICATIONS OF SPACE AGE PROGRAMS FOR DEVELOPING-COUNTRIES	0667
	*** SOCIAL BENEFITS TO MANKIND FROM THE SPACE APPROACH TO INTERNATIONAL RELATIONS	3107

SPACE	*** SOME POSSIBLE SOCIAL EFFECTS OF SPACE COMMUNICATION	0613
	*** SPACE COMMUNICATION AND BROADCASTING	3115
	*** SPACE COMMUNICATION AND THE MASS MEDIA	0724
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION BY THE MASS MEDIA	0721
	*** MEETING-OF-EXPERTS ON THE USE OF SPACE COMMUNICATION FOR BROADCASTING	0695
	*** SPACE COMMUNICATION FOR DEVELOPING-COUNTRIES, INDIA AS AN EXAMPLE	0625
	*** THE POTENTIALITIES OF SPACE COMMUNICATION FOR PROMOTING THE FREE FLOW OF INFORMATION AND GREATER CULTURAL EXCHANGE, AND THE RELATED INTERNATIONAL ARRANGEMENTS NEEDED	3049
	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
	*** LONG-TERM PROGRAMME FOR THE USE OF SPACE COMMUNICATIONS	0697
	*** SPACE COMMUNICATIONS, A NEW INSTRUMENT FOR WORLD-ORDER	0586
	*** SPACE COMMUNICATIONS IN THE SERVICE OF EDUCATIONAL DEVELOPMENT AND LATIN AMERICAN INTEGRATION	0757
	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
	*** SPACE SATELLITES AND EDUCATION	0585
	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
	*** SPACE TELECASTING FOR WORLD EDUCATION	0711
	*** SPACE TELECOMMUNICATIONS	0730
	*** PUTTING SPACE TO WORK TO EDUCATE THE WORLD	0752
SPACE-AGE	*** COMMUNICATION IN THE SPACE-AGE, THE USE OF SATELLITES BY THE MASS MEDIA	0612
SPACE-BASED	*** SPACE-BASED INSTRUCTION	0740
SPACE-ERA	*** RESPONSIBLE PRESENTATION OF THE NEWS IN THE SPACE-ERA	0615
STRIDE	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741
STUDENTS	*** STUDENTS VISIT VIA SATELLITE	0551
TASK-FORCE	*** FINAL REPORT. PRESIDENT'S TASK-FORCE ON COMMUNICATIONS POLICY	0713
TEACH	*** CAN THE UNITED STATES TEACH WHOLE WORLD TO READ	0751
TEACHING	*** TEACHING BY SATELLITE	0753
TECHNICAL	*** TECHNICAL ASPECTS OF DIRECT BROADCASTING	0628
	*** TECHNICAL POSSIBILITIES FOR RADIO AND TELEVISION SERVICES BY SATELLITES	0625
TECHNOLOGY	*** EDUCATION SATELLITE TECHNOLOGY	0770
	*** COMSATS, GALLOPING TECHNOLOGY AND LAGGING POLICY	0739
TELECASTING	*** SPACE TELECASTING FOR WORLD EDUCATION	0711
TELECOMMUNICATION	*** TELECOMMUNICATION AND THE TRANSMISSION OF NEWS	0616
	*** INTERNATIONAL TELECOMMUNICATION CONTROL. INTERNATIONAL LAW AND THE ORDERING OF SATELLITE AND OTHER FORMS OF INTERNATIONAL BROADCASTING	0772
	*** TELECOMMUNICATION SATELLITES AND THE EUROPEAN BROADCASTING UNION	0621
TELECOMMUNICATIONS	*** EDSAT. A PLAN FOR EDUCATIONAL DIFFUSION AND THE SOCIAL APPLICATION OF SATELLITE TELECOMMUNICATIONS	0663
	*** SPACE TELECOMMUNICATIONS	0730
TELEPHONING	*** HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING	0765
TELEVISION	*** COMMUNICATION SATELLITES FOR EDUCATIONAL TELEVISION	0762
	*** FEASIBILITY STUDY OF A PILOT PROJECT USING A COMMUNICATIONS SATELLITE PRIMARILY FOR EDUCATIONAL TELEVISION	0633
	*** SATELLITE SYSTEM FOR EDUCATIONAL TELEVISION	3037
	*** SATELLITES FOR EDUCATION, LESSONS FROM A DECADE OF EXPERIENCE WITH EDUCATIONAL TELEVISION	3038
	*** SATELLITE TELEVISION, A SYSTEM PROPOSAL FOR INDIA	3034
	*** SATELLITE EDUCATIONAL TELEVISION, AN EFFECTIVE FORM OF FOREIGN AID	0754
	*** TELEVISION AND THE WORLD OF THE SEVENTIES	0607
	*** DISTRIBUTION OF EDUCATIONAL TELEVISION BY SATELLITE	0707
	*** TELEVISION EDUCATION VIA SATELLITE	3055
	*** THE INDIA/ UNITED STATES TELEVISION EXPERIMENT	0746
	*** SATELLITE EDUCATIONAL TELEVISION FOR UNDERDEVELOPED-COUNTRIES	0703
	*** SATELLITE COMMUNICATIONS AND EDUCATIONAL TELEVISION IN LESS-DEVELOPED-COUNTRIES	0714
	*** SATELLITES FOR TELEVISION INSTRUCTION	0700
	*** INSTRUCTIONAL TELEVISION, PROMISE AND OPPORTUNITY	0675



TELEVISION	*** TELEVISION, RADIO, AND OTHER NEW MEDIA IN EDUCATION	0668
	*** STRIDE. SATELLITE TELEVISION RELAY FOR INDIA'S DEVELOPMENT AND EDUCATION	0741
	*** EDUCATIONAL TELEVISION SATELLITE DISTRIBUTION SYSTEM FOR INDIA	0655
	*** MULTIPLE CHANNEL EDUCATIONAL TELEVISION SATELLITE SYSTEM	0657
	*** TELEVISION SATELLITES FOR EDUCATIONAL PURPOSES	0764
	*** TECHNICAL POSSIBILITIES FOR RADIO AND TELEVISION SERVICES BY SATELLITES	0625
	*** SOME LEGAL ASPECTS OF TELEVISION TRANSMISSION BY SATELLITES	0620
	*** FIRST COLOUR TELEVISION TRANSMISSIONS VIA TELSTAR, A BROADCAST OF SKIN CONDITION FOR DOCTORS	0715
	*** PENNY COST FORSEEN FOR EDUCATIONAL TELEVISION VIA SATELLITES	0726
TELSTAR	*** FIRST COLOUR TELEVISION TRANSMISSIONS VIA TELSTAR, A BROADCAST OF SKIN CONDITION FOR DOCTORS	0715
	*** TELSTAR AND EDUCATION	0679
TRANSFER	*** TRANSFER OF INFORMATION BETWEEN LIBRARIES	0619
	*** THE IMPACT OF INFORMATION TRANSFER SATELLITES ON EVERYDAY LIVING	0759
	*** PLANNING THE EXPLOITATION OF SPACE, MULTI-MISSION INFORMATION TRANSFER SATELLITES, THE NEXT STEP	0773
TRANSMISSION	*** SOME LEGAL ASPECTS OF TELEVISION TRANSMISSION BY SATELLITES	0620
	*** TELECOMMUNICATION AND THE TRANSMISSION OF NEWS	0616
TRANSMISSIONS	*** THE EDUCATIONAL SATELLITE TRANSMISSIONS	3048
	*** FIRST COLOUR TELEVISION TRANSMISSIONS VIA TELSTAR, A BROADCAST OF SKIN CONDITION FOR DOCTORS	0715
TV	*** A PILOT PROGRAM OF SOCIOLOGY FOR SATELLITE TV	0756
	*** EDUCATION, CLASSES BY TV	0778
	*** FOR INDIA'S VILLAGES, EDUCATION BY TV	0771
	*** PROSPECTS OF EDUCATIONAL RADIO AND TV BROADCASTS VIA SATELLITE	0702
	*** FIRST INTERCONTINENTAL TV CLASSROOM	0680
	*** AN ECONOMETRIC ANALYSIS OF AN EDUCATIONAL TV DISTRIBUTION SYSTEM	0709
	*** BRAZILIAN EDUCATIONAL RADIO AND TV EXPERIMENT ON ATS F/G	0658
	*** SATELLITE TV. INDIA AS A CASE STUDY	0718
	*** SYSTEMS ENGINEERING STUDY OF A NATIONAL EDUCATIONAL TV SYSTEM	0704
UNDERDEVELOPED-COUNTRIES	*** SATELLITE EDUCATIONAL TELEVISION FOR UNDERDEVELOPED-COUNTRIES	0703
UNDERSTANDING	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
UNION	*** TELECOMMUNICATION SATELLITES AND THE EUROPEAN BROADCASTING UNION	0621
UNITED	*** USE OF COMMUNICATION SATELLITES BY THE UNITED NATIONS	3056
	*** THE PEACEFUL USES OF OUTER SPACE, ROLE OF THE UNITED NATIONS COMMITTEE IN GENERAL AND CONCERNING SPACE COMMUNICATION IN PARTICULAR	0629
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	0747
	*** MEMORANDUM OF UNDERSTANDING BETWEEN THE INDIAN DEPARTMENT OF ATOMIC ENERGY AND THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. BACKGROUND	0748
	*** CAN THE UNITED STATES TEACH WHOLE WORLD TO READ	0751
	*** THE INDIA/ UNITED STATES TELEVISION EXPERIMENT	0746
UNIVERSITY	*** TOWARD A SATELLITE UNIVERSITY NETWORK	0574
	*** UNIVERSITY PROJECTS IN SPACE SYSTEM ENGINEERING AND THEIR POTENTIAL BENEFITS FOR DEVELOPING-COUNTRIES	3075
UTILIZATION	*** OPTIMAL UTILIZATION OF COMMUNICATION SATELLITES FOR EDUCATIONAL PURPOSES	0706
VALUE	*** THE VALUE OF INSTRUCTIONAL BROADCAST SATELLITES	0659
VILLAGES	*** FOR INDIA'S VILLAGES, EDUCATION BY TV	0771
VISIT	*** STUDENTS VISIT VIA SATELLITE	0551
VOICES	*** VOICES FROM THE SKY	0699
	*** VOICES FROM THE SKY	0743
WHOLE	*** CAN THE UNITED STATES TEACH WHOLE WORLD TO READ	0751
WORK	*** PUTTING SPACE TO WORK TO EDUCATE THE WORLD	0752
WORKSHOP	*** CAVISAT REPORT OF BOGOTA WORKSHOP	0673
WORLD	*** PUTTING SPACE TO WORK TO EDUCATE THE WORLD	0752
	*** SPACE TELECASTING FOR WORLD EDUCATION	0711
	*** BENEFITS OF WORLD EXCHANGES	0618
	*** THE WORLD OF THE COMMUNICATIONS SATELLITE	0735



WORLD	*** TELEVISION AND THE WORLD OF THE SEVENTIES	0607
	*** WORLD PEACE VIA SATELLITE COMMUNICATIONS	0749
	*** CAN THE UNITED STATES TEACH WHOLE WORLD TO READ	0751
WORLD-ORDER	*** SPACE COMMUNICATIONS, A NEW INSTRUMENT FOR WORLD-ORDER	0686

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## SEARCH RECORD

Until we break into the invisible college of persons seeking to investigate the potential of communication satellites for social and educational use, and then change to a clearinghouse approach, we are relying on the published literature to identify and unify that invisible college and to document its development.

This bibliography was collected primarily from secondary sources, that is, the indexing and abstracting services that promised to contain the type of reference for which we were searching. Therefore, it lags nine to eighteen months behind the actual writing or presentation of these papers. Since we have not yet begun a full-scale search of recent periodicals, and since very recent engineering conference proceedings are not yet available to us, our only sources of truly current literature are a chance journal article with adequate bibliography or the receipt of recent papers from the authors themselves.

Two groups in particular seem to be working diligently toward the educational and social use of satellite communications. The Institute of Electrical and Electronics Engineers has, since 1965, been convening the IEEE International Conference on Communications each spring in Boulder, Colorado. While most of the nearly 50 sessions are devoted to highly technical and nonsatellite communications, several do provide for discussion of satellite communication systems. Much of the work in designing communication systems for education has been done by this community of engineers. Many of the papers presented at these conferences are not adequately represented in our bibliography because of difficulties of obtaining the *Conference Record*. The University of Wisconsin Engineering Library has not received the *Record* for 1966, 1967 or 1968.

UNESCO is a major focus of activity aimed at developing an expertise in the use of satellite communications for the social well-being of the global community. The UNESCO Meeting of Experts on the Use of Space Communication by the Mass Media published the report of its 1965 meeting in 1968. Many of these same men met again in December of 1969 at the UNESCO Meeting of Governmental Experts on International Arrangements in the Space Communication Field. At the United Nations Conference on the Exploration and Peaceful Uses of Outer Space, Vienna, August, 1968, much attention was paid the educational and social use of communication satellites, with special regard for the needs of developing countries.

For the convenience of other researchers, listed below is a record of the secondary sources searched, with some indication of the approach to these services.

The subject headings vary greatly from index to index, both in choice of terms and in their approach to the topic. For example, *Bibliographic Index* uses ASTRONAUTICS-COMMUNICATION SYSTEMS, a heading which could easily be overlooked by the bibliographic searcher accustomed to the more common headings—SATELLITES, ARTIFICIAL-COMMUNICATION USES (*Public Affairs Information Service Bulletin*) and COMMUNICATIONS SATELLITES (*Readers' Guide*). The variety in approach is even more likely to cause omissions. *International Aerospace Abstracts* tends to place entries under headings indicating the medium involved, such as EDUCATIONAL TELEVISION and RADIO COMMUNICATION, seemingly regarding the satellite merely as a means of transmission. Many of the general indexes, *Readers' Guide*, *Social Science and Humanities Index*, *Applied Science and Technology Index*, regard the satellite as the focal point and index accordingly. Most of the more discipline-oriented indexes in the social sciences are so diffuse in their listing of the topic, as we define it here, that a thorough and often not too rewarding search must be made.

**Applied Science and Technology Index**

Satellites, Artificial - Communication Uses  
1960 - September 1969

**Bibliographic Index**

Astronautics - Communication Systems  
Satellites, Artificial - Communication Application  
1960 - June 1969

**Business Periodicals Index**

Satellites, Communication  
1960 - June 1969

**Education Index**

Artificial Satellites - Communication  
1960 - October 1969

**ERIC Research in Education**

Communication Satellites  
1967 - September 1969

**International Aerospace Abstracts**

Variety of inconsistently used subject headings  
Broadcasting  
Communication Satellites  
Educational Television  
Radio Communication  
Satellite TV  
1966 - October 15, 1969

**Library of Congress Subject Catalog**

Artificial Satellites in Telecommunication  
1950 - 1967  
January-September 1968 (Library missing  
September-December)  
January-June 1969

**Public Affairs Information Service Bulletin**

Satellites, Artificial - Communication Uses  
1960 - May 3, 1969

**Rand Corporation Selected Abstracts**

No consistent subject heading  
1963 - March 1969

**Readers' Guide to Periodical Literature**

Communications Satellites  
1967 - May 25, 1969

**Social Science and Humanities Index**

Communications Satellites  
Artificial Satellites  
1960 - June 1969

**Scientific and Technical Aerospace Reports**

No consistent subject heading  
1968 - July 23, 1969