Books, Booklets, Brochures

Satellite Communications Physics is an 88-page illustrated book prepared by some of the scientists and engineers who designed and developed the Telstar satellite. The book is intended as an aid to high school science education and teachers and students may obtain a copy without charge from Bell Telephone Laboratories, 463 West St., New York 14. The first part of the book, prepared by the editor, Ronald M. Foster, Jr., presents a general survey of satellite communications. The second part deals with satellite communications case histories. Each of the six authors presents a detailed discussion of some particular problem involved in the construction of Telstar and how the problem was solved. For example, J. S. Courtney-Pratt, a physicist who is head of the Mechanics Research Department of Bell Laboratories, presents (p. 53) a case history entitled "How Can We Make Optical Measurements on a Satellite?" which describes in easily understood language how the Telstar scientists can know precisely the direction of the spin axis about which the satellite revolves and also the spin rate, i.e., how many revolutions the satellite makes each minute.

Other problems discussed include; "How Do We Calculate a Satellite's Orbit?"; "What Color Should a Satellite Be?"; "How Do We Keep Solar Cell Power Plants Working in Space?"; "Would Time Delay Be a Problem in Using a Synchronous Satellite?"; and How Can We Repair an Orbiting Satellite?"

Film Cataloguing Rules (72 pp., 8 by 10 in., paperbound) was compiled by the Cataloguing Committee of the Aslib Film Production Librarians Group and published (1963) by Aslib, 3 Belgrave Square, London SW 1. The intent of the Committee was to examine film cataloguing procedures to see if standardization is possible and to introduce more uniformity into some of the technical terms used in film libraries, together with their abbreviations. Existing library codes were studied and a list of definitions was drawn up, the definitions being amended or added to as the work proceeded. The definitions and the abbreviations are included in the *Rules*. The book is available from Aslib at a price of 14s to Aslib members and 16s to non-members.

The 1962 ASTM Index to Standards published by the American Society for Testing and Materials, 1916 Race St., Philadelphia 3, lists more than 3,000 standards, tentative specifications and test methods. The 234-page index also contains information about the ASTM and lists its technical publications. The Index is intended as a convenience for users of more than one Part of the Book of ASTM Standards to supplement the index in each Part. It is sent without charge to those receiving the Book of ASTM Standards and single copies are available upon request by persons indicating a need for it in construction, design, education, manufacturing, and other activities in the materials field. Extra copies are available at a price of $1.00.

Standard Graphical Symbols: A Comprehensive Guide for Use in Industry, Engineering and Science, by Alvin Arnell, published (1963) by McGraw-Hill Book Co., 330 W. 42 St., New York 36 (525 pp. + index, 8,825 illus., 8½ by 11 in., price $14.00) is intended to provide, in one volume, a complete analysis of graphic symbology as it is practiced in every major branch of engineering science. More than 9,000 symbols are presented and the book contains a comprehensive index to permit easy location of any symbol. Information on symbols available in type from printers and accepted abbreviations for use on drawings are shown in appendixes.

The Fundamentals and Problems of Color is a report on a panel discussion at the 40th annual meeting of the Federation of Societies for Paint Technology held last Fall in St. Louis, contained in the March, 1963, issue of *Official Digest*, the Journal of Paint Technology and Engineering. Papers appearing in the *Digest* include "The Systematic Description of Color," by Fred W. Billmeyer, Jr., "Colored Organic Pigments: Why So Many? Why So Few?" by Max Saltzman, and "Pitfalls in Color Specifications," by Ruth M. Johnston.

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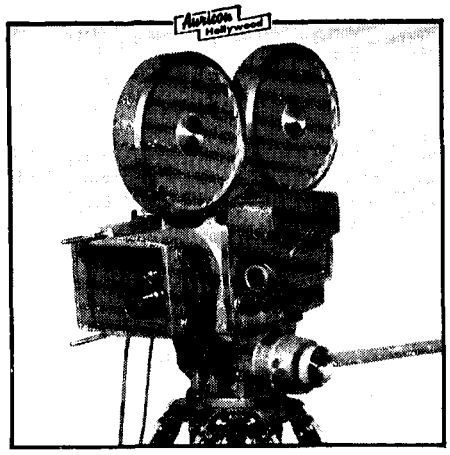

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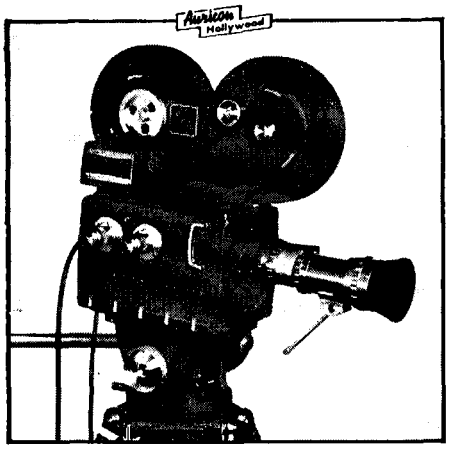

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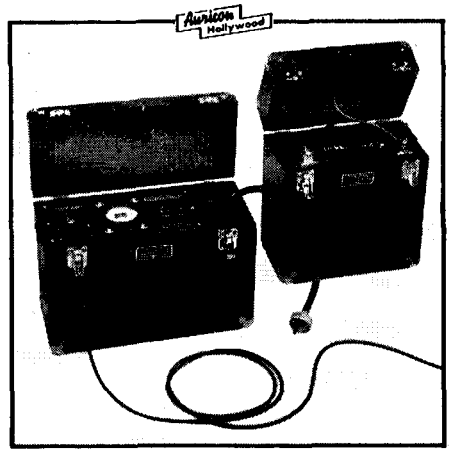

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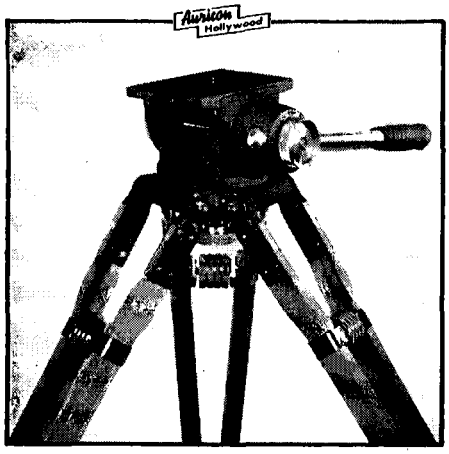

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