

or where there is delay in shipment. The data which will be presented on the various effects will be of considerable benefit to studio sound engineers who are now converting from photographic recording.

The other part has: first, "A New Technique for Synchronizing Multiple Television Originations" by Harold Jury, Chief Television Engineer, Don Lee Broadcasting System; and second, "Progress Report on an Electronic Background Projection System," by Wayne Johnson, KFI-TV, Los Angeles. Use of the projected background captured the interest of television engineers many years ago as a means of saving production time and space in television studios. Mr. Johnson's talk will include descriptions of an electronic method of applying a moving or still photographic background to a television picture.

Book Reviews

16-Mm Sound Motion Pictures, by William H. Offenhauser, Jr.

Published (1949) by Interscience Publishers, Inc., 215 Fourth Ave., New York 3. 546 pp. + 15 pp. index + 19 pp. appendix + xii pp. 123 illus. 6 × 9 in. Price, \$10.00.

16-Mm Sound Motion Pictures is described by the author as "a manual for the professional and the amateur." What makes it more than a manual, however, is the inclusion of a good deal of information derived from the practical experience of the author.

Most of the chapters are devoted to the technical aspects of 16-mm photography, sound recording, editing, processing, and projection. Not only are representative equipments described with the aid of many illustrations, but also the techniques and methods are discussed at great length. Methods of quality control of picture and sound, from the planning of a picture to the projection of its prints, are outlined. The problem of emulsion position and precautions to be taken in this regard throughout the steps of picture making are clearly described. There is a chapter on the history and growth of 16-mm film and its relation to other sizes.

The chapter on film processing and printing is especially good. There is a chapter on color film and the duplicating process. Film in television is treated from the technical standpoint. Throughout the book, how-to-do-it information is profuse, in some cases, down to the last detail. Measurements in the processes are carried through step by step, with the help of illustrative examples. This is very helpful and increases the value of the book.

Liberal reference is made throughout the text to motion picture dimensional standards and practices of the American Standards Association, and their importance in attaining professional results is stressed. An appendix contains standards of nomenclature and various useful charts and symbols.

The book is recommended to the many technicians working with 16-mm film. Each specialist not only will find it helpful in his particular area but also he will find that it enables him to broaden his technical knowledge in this rapidly expanding field.

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The Recording and Reproduction of Sound, by Oliver Read

Published (1949) by Howard W. Sams & Co., Inc., Indianapolis 1. 358 pp. + 6 pp. index + x pp. 256 illus. Price, \$5.00.

All those interested in the recording and reproduction of sound will discover in this book a wealth of information that will prove very useful, whether to them as hobbyists, operators of commercial equipment, or even as engineers. It describes the subject in clearly understood language, yet uses less mathematics in doing so than has been observed by this reviewer in any other similar book. The engineer, who is frequently a specialist in but one or two methods of sound recording or reproduction, should also welcome in this book an opportunity to review in considerable detail the other sound recording and reproducing techniques; and, as a result, his broadened knowledge of the subject should prove helpful in his own more limited field.

The chapter dealing with Columbia L.P. and RCA 45-rpm records is particularly timely and it points out the specifications and features of both systems as compared to the older 78-rpm records.

Of particular interest to all is the last chapter which covers proposed NAB Recording and Reproducing Standards and proposed American Standard Acoustical Terminology.

The appendix contains numerous useful tables, charts, and formulas for electronic service engineers as well as a tabulation of numerous disk recording troubles with their causes and cures. It also includes a glossary of many of the terms used primarily in the disk recording field.

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Meetings of Other Societies

Institute of Radio Engineers, National Convention, March 6-9, New York, N.Y.

Inter-Society Color Council, Annual Meeting, March 8, New York, N.Y.

Optical Society of America, Winter Meeting, March 9-11, New York, N.Y.

Armed Forces Communications Assn., Annual Meeting,

May 12, New York and Long Island City

May 13, Fort Monmouth, N.J.

Institute of Radio Engineers, Technical Conference, May 3-5, Dayton, Ohio

Acoustical Society of America, Spring Meeting, June 22-24, State College, Pa.

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