

# Books, Booklets, Brochures

**The IES Lighting Handbook**, published by the Illuminating Engineering Society, 345 E. 47th St., New York, NY 10017, has been updated and revised. Containing 480 pages and 375 charts, graphs, and diagrams, it is a dictionary of lighting terminology and information on luminaires, light and optics, daylighting, light and vision, light sources, measurement of light and other radiant energy, lighting calculation, and color. Basic concepts, processes, calculations, and sources are defined and described. The book contains more than 85 new and revised terms and definitions, new calculation procedures, an expanded use of algorithms for computer applications, and a rating technique for evaluating designs. The handbook is available from IES at a price of \$170.

**Digital Image Processing: A Practical Primer**, by Gregory A. Baxes, is intended to provide an elementary overview of digital image processing at a practical level, and to be of special value to a reader without an extensive background in higher mathematics. The book is arranged in four sections: Introduction to Image Processing, Processing Concepts, Processing Hardware, and Processing in Action. In addition, the author provides a list of books and selected articles for further reading, some of them more advanced than others, requiring some knowledge of higher mathematics.

A glossary defines more than 60 terms used in the context of digital image processing. The definitions of these frequently encountered terms are set forth in clear, uncluttered language and will, undoubtedly, be helpful to the untutored reader. The book is, apparently, intended more as a guidebook for persons whose work requires an understanding of digital image processing than as a book intended only for the interested reader who hopes to acquire at least a superficial knowledge of significant technical advances. The *Practical Primer* is, on both levels, highly successful.

The book contains 196 pages, including the index, and is profusely illustrated. It measures 8½×11 in. and is softbound. It is available from Prentice-Hall, Inc., Englewood Cliffs, NJ 07632, at a price of \$14.95.

**Three paperback technical dictionaries**, each priced at \$15.95, are available from McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY 10020.

The *McGraw-Hill Dictionary of Electrical and Electronic Engineering* contains some 7800 terms. Multiple definitions are given for many entries.

Thorough coverage is given to electricity, electromagnetism, electronics, and solid-state physics.

The *Dictionary of Computers* has definitions for 7700 terms useful to both professionals and nonprofessionals who need a basic understanding of the vocabulary of computers.

The *Dictionary of Mechanical and Design Engineering* contains 6700 definitions and examines the essential terms needed in such disciplines as aerospace

engineering, control systems, mechanics, thermodynamics, and fluid mechanics.

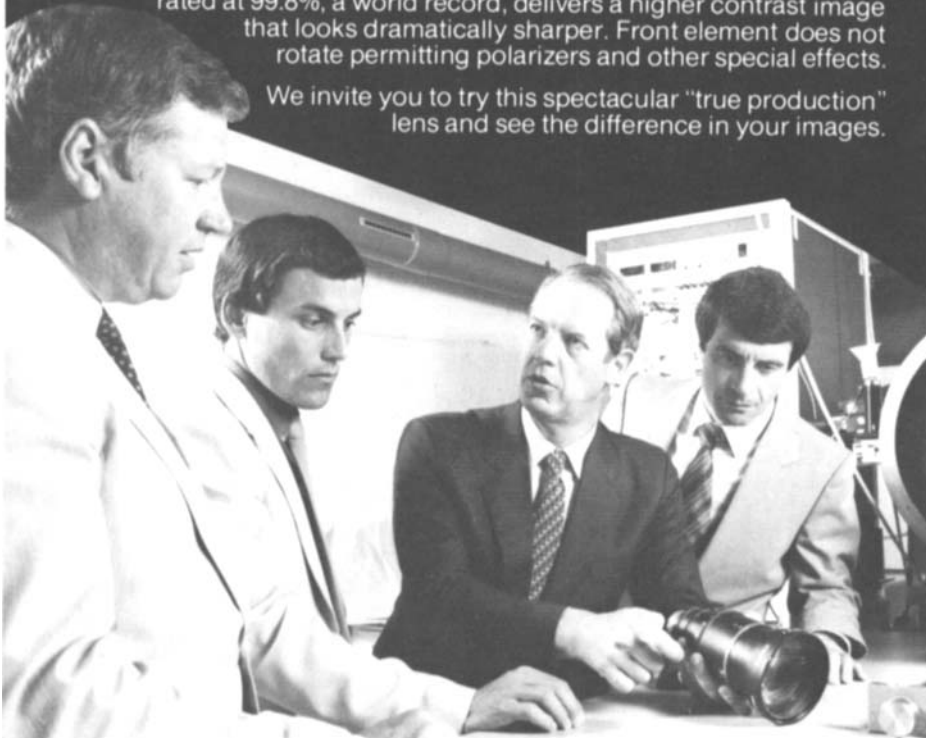
**See, Hear, Interact: Beginning Developments in Two-Way Television**, by Maxine Holmes Jones, is a review of interactive television projects conducted in educational settings since the early 1970s. The author explores the potential of this new medium of electronic communication by providing examples of prototypical systems in the U.S. and Canada that have already been studied. These systems have a visual component and some form of live (real-time) return message from the viewers.

The book presents background information on experimental studies in several

**It took three years to optically design, engineer and field test the new Angenieux 12x10 T2. It's ready for you now. The results are spectacular.**

The ultra-high optical performance of the new Angenieux 16mm 12x10 (12x120) T2 lens is the sharpest you have ever seen. Equal to or better than the finest fixed focal lens. The fast T2 aperture is constant throughout the zoom range. Diffraction limited—zero aberrations when stopped down to T4. Our exclusive High Efficiency Coating, rated at 99.8%, a world record, delivers a higher contrast image that looks dramatically sharper. Front element does not rotate permitting polarizers and other special effects.

We invite you to try this spectacular "true production" lens and see the difference in your images.



**angenieux**

SALES • 7700 N. Kendall Dr. Miami, FL 33156 (305) 595-1144  
SERVICE • 120 Derry Rd. Hudson, NH 03051 (800) 258-1382  
• 13381 Beach Ave., Venice, CA 90291 (213) 821-5080  
• 190 Don Park Rd., Markham, Ontario, Canada L3R-2V8

Opticam sa Case postale 91, 1211 Geneva 17, Switzerland Tel (22) 362266 Telex 27670OPTICCH

fields, such as education, social services, telemedicine, and community services. An extensive list of references is included. Published by Scarecrow Press, Inc., P.O. Box 656, Metuchen, NJ 08840, it is available at a price of \$15.

**The 1985 Catalog of American National Standards**, available from the American National Standards Institute Inc., 1430 Broadway, New York, NY 10018, lists approximately 8000 ANSI-approved standards. The standards provide dimensions, ratings, terminology and symbols, test methods, and performance and safety

requirements for materials, equipment, components, and products. The catalog is priced at \$10. Purchasers receive, at no extra charge, all supplements issued in 1985.

**Two new CIE publications** — *The Spectroradiometric Measurement of Light Sources*, and *Determination of the Spectral Responsivity of Optical Radiation Detectors* — are available. Both reports are in English.

*The Spectroradiometric Measurement of Light Sources* (Publication No. 63) is in two sections, the first covering, in a

general way, the use of a spectroradiometer in measuring the spectral power distribution of any type of source, with particular references to the determination of photometric and colorimetric properties. The second section relates to the measurement of various lamp types.

*Determination of the Spectral Responsivity of Optical Radiation Detectors* (Publication No. 64) outlines procedures for determining the spectral responsivity function of photodetectors. Various methods of determining the relative spectral responsivity function are presented and instrumental details are discussed. Three different methods are presented for transforming the relative spectral data into absolute values. This report is intended to serve as a guide for anyone wishing to assemble, test, or modify new or existing instruments.

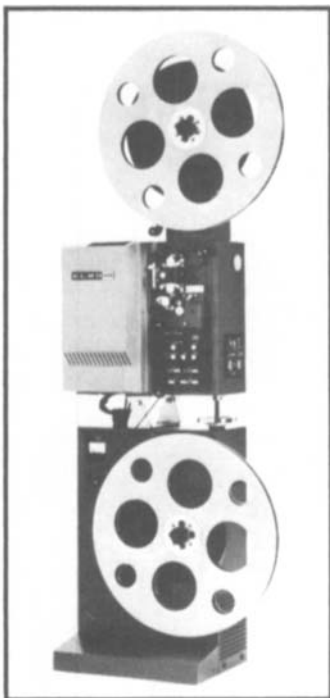
Both publications are available from Dr. Klaus D. Mielenz, Secretary, U.S. National Committee, CIE, Room B-306, Metrology Bldg., National Bureau of Standards, Gaithersburg, MD 20899. No. 63 is priced at \$32, while No. 64 is \$36.

**Process Instruments and Controls Handbook**, 3d ed., by Douglas M. Considine, Ed., reflects new developments and changing technology. This revised and updated edition presents detailed current information on instrumentation/controls as practiced in every field and specialty. The book contains 1766 pages and 1593 illustrations. It is available from McGraw-Hill Book Co., 1221 Ave. of the Americas, New York, NY 10020, at a price of \$89.50.

In-depth explanations are given of such important developments as digital technology, new materials and methods used in measurement systems, fiber optics, energy measurement and control, optical transmission systems, and the automation of data display and storage. The book contains hundreds of tables, charts, graphs, diagrams, and checklists, and it includes a comprehensive index and numerous cross references within the text to related material.

**Special Effects — Wire, Tape and Rubber Band Style**, by L. B. Abbott, covers almost 50 years of special effects in motion pictures. The author, during his 46 years with 20th Century-Fox, has been instrumental in bringing the art and technique of special effects from the "wire, tape, and rubber band" era to its present state of sophistication. The winner of both Oscars and Emmys for his work on well-known feature films, he provides authoritative information on the history and development of "cinematic magic." The book (241 pages, illustrated) is available from the American Society of Cinematographers, P.O. Box 2230, Hollywood, CA 90078, at a price of \$29.95.

# THE ULTIMATE PROJECTOR



Elmo Pedestal Projectors are a tribute to user needs rather than abstract engineering. We set out to build the "ultimate projector"...and we did! Thanks to Elmo, the traditional bulky, hot, temperamental theatre projector is gone. 1000W or 2000W Xenon-brilliance delivering up to 5500 lumens of pure white light. It performs flawlessly. Elmo push-button operation makes it simple. Compact design to fit virtually any projection booth.

Look further. Most theatres have their own sound system, but if it breaks down, that's no problem. The Elmo has its own built-in 60W sound system...plus built-in two-track stereo and laser optical sound. *All standard equipment!* Maintenance? Minimal and straightforward. Want to project standard reels with changeover? Sure, it's built-in. Want to show 6000 foot reels...Of course, that's standard too!

Elmo Theatre Projectors have been acclaimed as the "ultimate" by experts. Want proof? Now in use at a highest level Washington D.C. federal facility; by leading professional motion picture labs; in a major motion picture studio; in private homes of two Hollywood superstars; in leading universities, museums, commercial theatres and corporate headquarters.

Prices start at \$12,000.

Nothing compares with Elmo Xenon Projectors.

*The A-V Innovators since 1921*

**ELMO** **ELMO** Mfg. Corp.  
70 New Hyde Park Road, New Hyde Park, N.Y. 11040  
Chatsworth, California / Brampton, Ontario, Canada

# 16mm XENON THEATRE PROJECTORS

The 1985 Membership Directory of the International Communications Industries Association contains information on services and products offered by each ICIA member firm as well as contact names, addresses, and telephone numbers. In addition to dealers, the directory lists manufacturers, producers, commissioned agents, independent representatives, systems consultants, and nontheatrical distributors. The directory is available upon request from ICIA, Member Services Dept., 3150 Spring St., Fairfax, VA 22031-2399.

The 1985 Videotex-Teleservices Directory is available from the Institute for the Future, 2740 Sand Hill Rd., Menlo Park, CA 94025, at a price of \$80. The directory contains 250 pages and provides sources of information on equipment and software, and lists in detail electronic publishers, advertising agencies, financial institutions, and others offering electronic services. It also lists some 50 research and consulting companies with special resources and experience in interactive services, including frame creation, technical planning, and financial services.

A digital audio studio directory is available from Sony Professional Audio Div., One Sony Dr., Park Ridge, NJ 07656. The directory includes information on all facilities in the U.S. equipped with the PCM-3324 digital multi-track recorder. Studios in New York, Los Angeles, Dallas, Houston, and Atlanta are included in the first issue of the directory. The directory will be updated annually.

Laser-based fiber-optic systems are described in a 4-page illustrated technical data sheet available from Artel Communications Corp., P.O. Box 100, West Side Sta., Worcester, MA 01602. The Artel SL3000, described in the data sheet, can transmit broadcast-quality video and two subcarriers for audio and data on a single optical fiber. The data sheet describes how Artel's systems are designed to meet the need of the television broadcast and telecommunications industries for longer-haul fiber-optic systems.

The 1985 Test and Measurement catalog is available from Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY 11788. The 80-page catalog contains detailed descriptions of more than 100 products. Among recent developments illustrated and described are Leader's 35-MHz 2-channel digital storage oscilloscope and the 100-MHz 3-channel dual time-base oscilloscope.

Industrial meters are described in an 8-page illustrated brochure available from Minolta Corp., 101 Williams Dr., Ramsey, NJ 07446. Five meters are described: the illuminance meter, a 1° luminance

meter, a chroma meter II reflectance, the chroma meter II incident, and the TV color analyzer II.

A catalog of broadcasting equipment is available from Calvert Electronics, One Branca Rd., East Rutherford, NJ 07073. The catalog lists transmitting tubes, camera tubes, vacuum capacitors, RF transistors, and other items used in the maintenance of broadcasting equipment.

HID floodlights, luminaires, and lighting controls are described and illustrated in a 6-page brochure available from Wide-

Lite, P.O. Box 606, San Marcos, TX 78666. In addition, a brief description is given of lighting equipment specifically designed for industrial, hazardous location, commercial, and sports applications.

The XC-900D User Reports, a 24-page application booklet is available upon request from Sharp Electronics Corp., Broadcast Group, 10 Sharp Plaza, Paramus, NJ 07652. The booklet contains 14 case histories recounting how the XC-900D diode gun Plumbicon camera has solved various production problems for its users.

LaVeZZi's reputation for precision components has been unmatched in the film industry since we first manufactured sprockets for cinema projectors in 1908. Our component designs have contributed to improvements in film presentation and reductions in film maintenance. The quality has improved equipment reliability.

Equally important to the film industry, LaVeZZi gears, shafts, cams, clutches, eccentrics and other components are contributing to the reliability of camera operations, in the control of film in projectors and cameras, in film processing operations, and in tape transfer systems. These parts are manufactured by people who can machine complex designs to strict specifications, and who care about

quality. It's the LaVeZZi way of doing a job!

Our customers take pride in their LaVeZZi machined components. They know it contributes to equipment reliability. When you need quality components, ask for "Precision Machining Capabilities" and see how LaVeZZi Close Tolerance Components can improve your equipment reliability.

**LAVEZZI**

LaVeZZi Precision, Inc.

(Formerly LaVeZZi Machine Works, Inc.)

900 North Larch Avenue  
Elmhurst, Illinois 60126  
(312) 832-8990

Out of state, call toll free 1-800-323-1772

## Precision machined components for cameras, projectors, film and tape processing equipment.

