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# NEW PUBLICATIONS

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## Book Reports

**BM/E ENG/EFP/EPP Handbook.** By C. Robert Paulson. Introduction by Joseph Flaherty. Published (1981) by Broadband Information Services, 295 Madison Ave., New York, NY 10017. 570 pp. Illus. 8 × 11 in. Price \$39.95.

This is one of the "must have" books for anyone involved in any aspect of electronic newsgathering and broadcasting. It can also be good reading for persons who have only a peripheral interest in broadcasting and it can be read profitably by those who are interested in relating academically the remarkable advances in television technology to the social and political changes throughout the world.

The book is divided into four parts: Part I, What's Happening in Television Communications; Part II, Electronic Field Production; Part III, Electronic Post Production; Part IV, Wrapup. Chapter 1 in Part I presents "An aerial view of the 1980s: flood of constant change — the end

of a decade and a television era; some observations about the future."

In addition to providing an analysis of the revolutionary changes in television technology and the equipment concomitant with those changes, the book provides practical information in the form of detailed descriptions and photographs of equipment developed for electronic field production and post production with special reference to digital technology.

The author's style and the book's usefulness to the layman as well as to systems management people and engineers can be shown by a brief quotation from Chapter 2, Part I, entitled "Communication Becomes More Electric." The author asks "Are you still uncomfortable with the buzzy acronyms of ENG and EFP?" He assures the reader, "The distinctions are straightforward. EFP (Electronic Field Production) describes a *technique* for producing pictures electronically in the field instead of in a control room/studio setup. . . . ENG (Electronic Newsgather-

ing) describes a special application of the EFP techniques: gathering news electronically. It applies to nonbroadcast organizations as well as TV stations which gather news with television cameras for any type of live or later distribution to viewers. EPP (Electronic Post Production) is the third of a *three-phase* process for assembling unorganized television picture and sound information into a recorded communication which is ready for duplication and distribution."

**Microcomputer Structures: An Introduction to Digital Electronics, Logic Design and Computer Architecture.** By Henry D'Angelo. Published (1981) by McGraw-Hill, 1221 Avenue of the Americas, New York, NY 10020. 394 pp. 314 illus. 6 × 9 in. Price \$18.95.

Presenting a structure format for the novice to use in building a solid foundation in the field, *Microcomputer Structures* covers every aspect from the basics of general electricity to the fundamentals of

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microcomputer interfacing. This authoritative work requires little, if any, prior knowledge of digital computer hardware.

Among many topics given detailed coverage are semiconductors, transistors, inverter design, simplified diode models, transistor switching speed and switching algebra. Also examined are such topics as combinational logic, sequential logic, clock structures, memory, bus structures, architecture and microprocessors.

Included are a number of examples to clarify and amplify the concepts discussed.

**The Samuelson Manual of Cinematography and Catalogue.** 200 pages, 4 × 8 inches, price £2 or \$4.95. Published by Samuelson Film Services, Ltd., 303-315 Cricklewood Broadway, London NW2 6PQ, England. The Samuel Film Services of London has published a unique handbook for motion-picture cameramen or anyone dealing with the production of material for motion picture theatres or television broadcast. The new publication is a back-to-back combination of *The Samuelson Manual of Cinematography* and the *Samuelson Catalogue*.

The 200-page booklet is a compact 4 × 8-inch pocket-size handbook intended to fit conveniently into a suit pocket or carrying case.

The manual is a very complete collection of over 80 charts and tables constantly re-

ferred to by cameramen and other individuals in film handling. The data covers every conceivable item from lighting filters to weight of film in cans, including the usual lens charts, projection screen sizes, sound information, and a complete list of SMPTE test films. The complete list of conversion factors so necessary in the current trend toward "going metric" as well as lens formulas, electrical cable capacities, and threading diagrams, make the manual a very necessary item to have at hand.

The second half of the book is a very complete list of all equipment and services needed for production, showing the rental charges and personnel to contact not only in London but also in the Samuelson offices in Australia, France and South Africa. The booklet can indeed be recommended as a valuable tool for anyone in commercial production or amateur film activity.

### Catalogs, Brochures

**The 1981 German-English DIN Catalogue/Index**, published by DIN, the German Standards Institute, is available from Heyden & Son Inc., 247 S. 41 St., Philadelphia, PA 19104, at a price of \$63. The catalog has been expanded to two volumes and provides complete details on all DIN standards presently available. Approximately 23,300 standards and draft stan-

dards are cataloged in both English and German, an increase of almost 3000 new listings over last year's listings. The 1981 catalogue has been thoroughly updated with over 5500 title changes that differ from the 1980 entries. A special information section provides details on all DIN Standards that have been translated and are available in English.

**The Directory of Lighting Equipment and Accessories** is available from the Illuminating Engineering Society of North America, 345 E. 47 St., New York, NY 10017, without charge to IES members and at a price of \$10 to others. The *Directory* contains information on light sources, luminaires, lighting accessories, product applications and a list of manufacturers. The manufacturers are listed in alphabetical and geographical sequence. The *Directory* also contains 75 photographs of new products.

A revised second edition of **Images, Images: The Book of Programmed Multi-Image Production (S-12)** is available from Eastman Kodak Company, 343 State St., Rochester, NY 14650, at a price of \$19.95. The book contains 264 pages, 20 pages of new material, 362 color photographs, and 17 line drawings. The book begins with a review of programmed multi-image presentations and provides guidelines for determining when, where and why this com-

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## SONY

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munications approach is appropriate and effective. How to organize and budget for a multi-image production is also examined. A section on planning covers the steps from media selection to organizing an effective production proposal and treatment. A final section on presentation shows how to rehearse, transport, set up and present the finished program. The book also contains eight in-depth interviews with leading multi-image producers.

**The Hawkeye recording camera system** is described in a full-color brochure (9155B) available upon request from RCA Broadcast Systems, Bldg. 2-2, Camden, NJ 08102. The Hawkeye is an integrated one-piece video field production system which combines a compact broadcast-quality color TV camera, a videocassette VTR, a microphone and battery all in a lightweight portable package. Features, applications and capability of the Hawkeye are described in the brochure.

**Minolta Industrial Meters** are described in an eight-page, two-color brochure available upon request from Minolta Corp., 101 Williams Dr., Ramsey, NJ 07446. Three meters are described — the Illuminance Meter for continuous and instantaneous light readings; the Luminance Meter  $1^\circ$  for spot readings of a light source on surface brightness; and the Chroma Meter, a compact tristimulus color analyzer.

**CCTV lenses, lens accessories, video access control, portable surveillance systems and covert or overt CCTV housings** are described in a 24-page catalog available from Visual Methods Inc., 25 Charles St., Westwood, NJ 07675. The catalog includes charts and tables to aid in CCTV system design.

**Digital signal processing components** are listed in a four-page short form illustrated catalog available from TRW LSI Products, P.O. Box 2472, La Jolla, CA 92038. Listed in the catalog are 8-, 12-, and 16-bit multipliers and multiplier-accumulators. Also listed and described are high speed A/D and D/A converters and digital correlators.

**A lens selection data sheet** for use with television cameras is available from Cohu, Inc., Electronics Div., P.O. Box 623, San Diego, CA 92112. Topics covered include scene illumination, lens speed, focus, focal length and plane, and magnification.

**The RTI 1981 catalog**, listing more than 1200 audiovisual and motion picture products plus accessories, is available upon request from Research Technology International, 4700 Chase Ave., Lincolnwood, IL 60646. The catalog contains 144 pages and is illustrated. Equipment includes film inspection, cleaning and editing equipment, film splicers and splicing equipment and many more.

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## ABSTRACTS OF PAPERS FROM OTHER JOURNALS

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**The Measurement of Teletext Performance Over the United Kingdom Television Network**, L. A. Sherry and R. C. Hills, *Radio and Electronic Eng.*, 50: 503-518, Oct. 1980.

This paper summarizes the results of extensive teletext field trials conducted in the United Kingdom between March 1976 and March 1978. Consideration is given to the teletext performance of the UHF television network, the extent of reception in the homes of viewers, and the performance of teletext decoders. The results indicate that the service will be predominantly field strength limited provided viewers use well-installed outdoor antennas.

It is suggested that data regeneration may be used to advantage to ensure the highest possible standards of radiated performance from certain stations. This is

because, to a large extent, transmitter group delay errors become more significant for teletext than for television. The paper concludes that an adequate teletext service is available to a high percentage of the existing television audience, provided production receivers have a decoding threshold approach of 25% eye height. However, it is noted that many current production receivers fall considerably short of this performance.

**The Influence of the Elasticity of Magnetic Tape on Some Parameters of Magnetic Recording**, Wolfgang Fell, *Radio and Electronic Eng.*, 50: 624-630, Nov./Dec. 1980.

A tape driven by an accurately running capstan between precisely aligned guides cannot be scanned exactly. Due to the