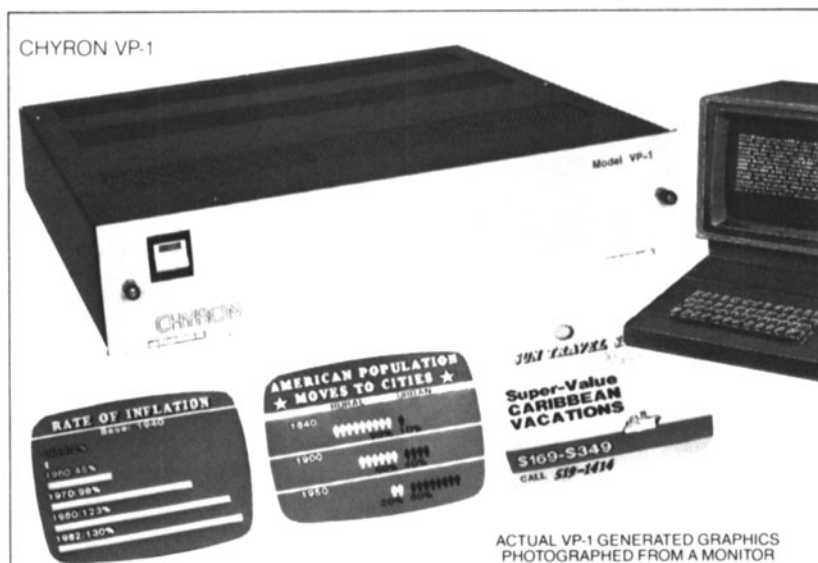


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## BOOK REVIEWS

**The McGraw-Hill Computer Handbook**, Editor-in-Chief Harry Helms. Published (1983) by McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY 10020. The book contains 992 pp., 475 illus. 8½ X 11 in. Price \$79.50.

This impressive reference volume offers comprehensive information on the entire field of computer science, covering everything from basic computer theory to such diverse, specialized topics as artificial intelligence, voice recognition, and robotics.

Five of the 30 sections are devoted to computer language: BASIC (Beginners All-purpose Symbolic Instruction Code); COBOL (Common Business Oriented Language); FORTRAN (FORMula TRANslator); Pascal (named for the 17th century mathematician Blaise Pascal); and PL/I.

The *Computer Handbook* provides an important reference for the experienced computer professional. It is also of special value for the beginner and the seeker after knowledge of this burgeoning science. The *Computer Handbook* offers authoritative answers to virtually any questions that may arise about computers concerning the past, present, and foreseeable future.

Twenty-three contributors from 14 universities and nine corporations have provided sections covering each one's special expertise. Editor Harry Helms is a technical writer and consultant. He contributed a section on Artificial Intelligence and Robotics.

Other topics covered include computer structures, number systems and codes, logic networks, memory units, and input/output devices. Also examined in detail are such topics as machine-and-assembly language programming, computer graphics, interfacing, databases, and microprocessors.

The illustrations (diagrams) are explicit and contribute to the reader's understanding. The book also contains a glossary of computer terms and an extensive index.

Thomas C. Bartee of Harvard University wrote the Foreword, and Adam Osborne, president of Osborne Computer Corp., contributed the Overview.

Bartee notes in the Foreword, "Computers are beginning to touch the lives of everyone. . . . The wide range of applications brings up some basic philosophical questions about what the future will bring."

In this "computer age," a clearly written reference dealing with "philosophical questions" as well as with practical instructions, such as the *Computer Handbook* is required reading for both the novice and the professional.



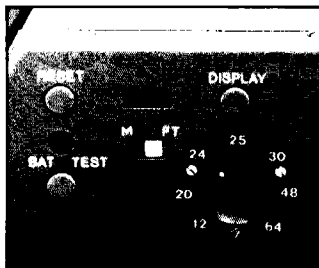
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✓ **Variable speeds.** Selectable step-variable crystal-derived speeds from 12 fps to 64 fps — including sync speeds of 24 fps and 25 fps. All at the mere twist of a dial.



✓ **Optional 30 fps speed.** Ideal for highest quality, direct frame-to-frame transfer to videotape.

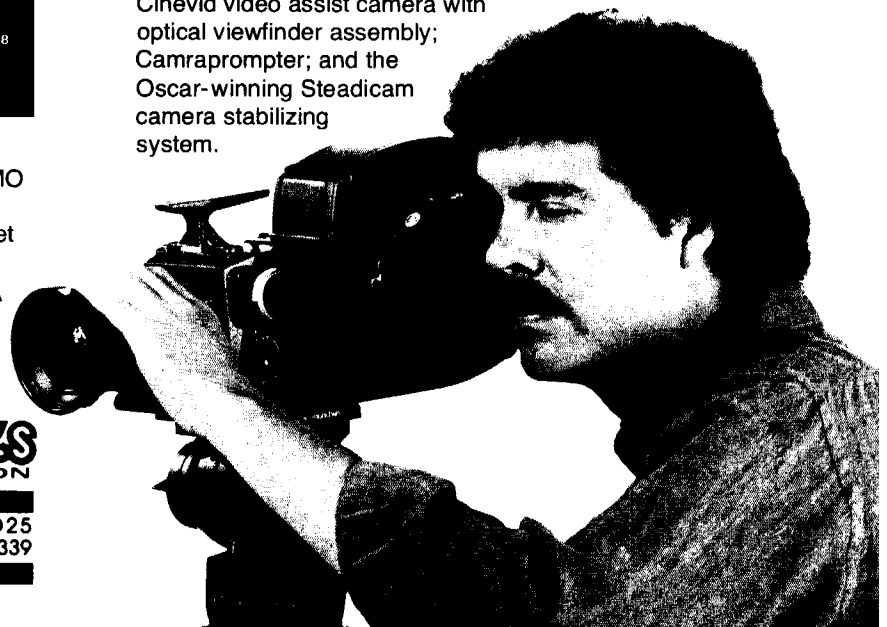
✓ **Sophisticated electronics.** Using CMOS logic and hybrid IC's for maximum component density, the GSMO circuit board also provides auto slating and pilotone outputs, and electronic digital footage readouts in feet or meters.

✓ **Silent operation.** Guaranteed not to exceed 28 dBA one meter from the film plane while pulling film.

✓ **180° mirror shutter with "electronic inching."** Single-blade, full-speed rotating shutter stops automatically in viewing position. Can be electronically commanded to stop in open position with the aperture visible for inspection.

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**Teletext and Videotex  
in the United States**

By J. Tydeman, H. Lipinski, R. Adler, M. Nyhan, L. Zurinper. Published (1982) by McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY 10020. 314 pp. Illus. 7 1/2 x 9 1/2 in. Price \$34.95.

This book presents the findings of a technological assessment of teletext and videotex, a study to assess the impact of teletext and videotex in the U.S. over the next 10 to 20 years. The project, which was conducted by a research team at the Institute for the Future, was sponsored by the National Science Foundation.

The result is a very comprehensive analysis of the current state of the technology, of future developments possible in the next 10 to 20 years, and of the policy issue and social impact. Both teletext and videotex are rapidly developing technologies. To write a book on any fast-moving development is extremely difficult, and there is a chance that the book would rapidly become obsolete.

By limiting the discussion of the technologies, as they stand, to one chapter in which the main differences (incompatibilities) between the systems are identified, the book avoids being too detailed.

The chapter on "Future Applications"

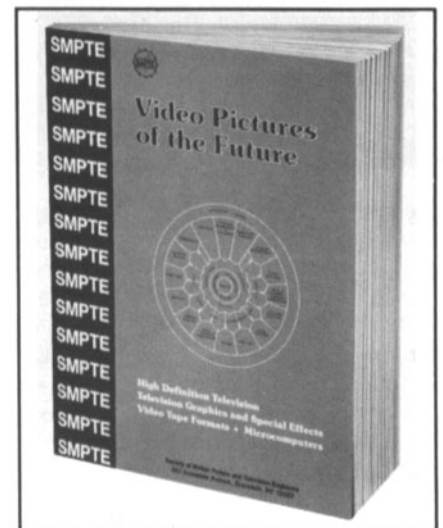
forecasts the alternatives, and the chapter on "Policy and Social Impacts" looks to the future and projects possible developments during the next 10 to 20 years.

In the years to come, it will, of course, be possible to read this book with amazement at how closely the projections have been met, or how far the actual events deviated from the projections.

As it stands today, the book provides a very comprehensive presentation, review, and analysis of the present and the future of teletext and videotex in the U.S. Whether the reader is already in the field or a newcomer to teletext/videotex technology, this book will provide useful reading as all issues relating to the technology are covered in the one volume.

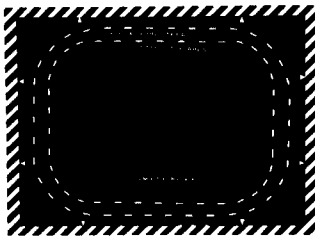
—D. L. Garforth

**BOOKS, BOOKLETS,  
BROCHURES**

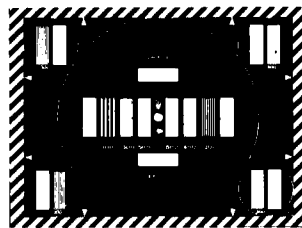


**SMPTE**

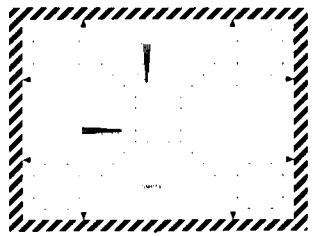
**Television Test Films & Slides**



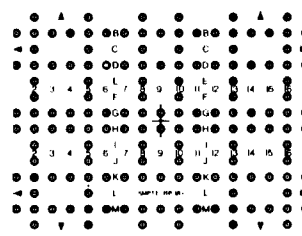
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**New Book from SMPTE**

A new book, **Video Pictures of the Future**, has been published by the Society of Motion Picture and Television Engineers, it was announced by SMPTE Editorial Vice-President Maurice L. French, Canadian Broadcasting Corp.

The book is 8 1/2 x 11 in., soft-bound, and contains 296 pages. The price is \$35, less 20% to SMPTE members. The book is available from SMPTE Books, 862 Scarsdale Ave., Scarsdale, NY 10583.

The new book contains 28 papers that were presented at the SMPTE Television Conference held in February, 1983, in San Francisco. The major topics covered in the book are: High-Definition Television, Television Graphics and Special Effects, Video Tape Formats, and Microcomputers.

Following are papers and authors listed in the Table of Contents of **Video Pictures of the Future**: