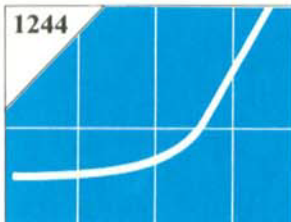


Highlights

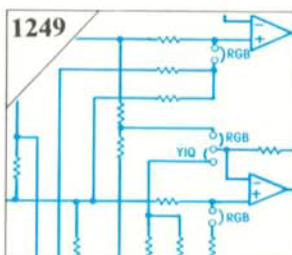


1244

Picture Quality Assessment: A Comparison of Ratio and Ordinal Scales

B. L. Jones and L. E. Marks

Two picture quality experiments were conducted using ratio and ordinal scaling methods. The ratio scales were generated by magnitude estimation and the ordinal scales were rank-ordered category scales. The purpose was to compare the methods to see if one method would outperform the other. Two stimulus ranges were employed on otherwise equivalent stimulus material and observers. The ratio-scale results showed much smaller context effects and have the additional virtue of providing meaningful ratios and intervals in the numerical responses.

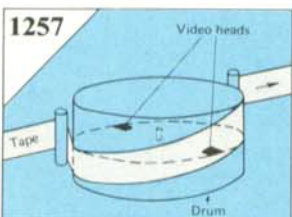


1249

Component Processing in Time-Base Correctors and Post-Production Switchers

D. E. Acker

The advent of component recording, coupled with the improvements offered by doing certain types of video processing in component form, has created the need for component production switchers and time-base correctors (TBCs). The lack of standards for component signals raises questions as to the best processing format for such equipment. This article explores some of the advantages of component processing and outlines certain design aspects used in the development of component processing hardware.



1257

History of Home Videotape Recorder Development

Y. Shiraishi

This article gives an overview of the development of home videotape recorders, from the early days to today's improved devices. Video technology is increasingly viewed as a necessity both for recording and also as an information-transfer medium through prerecorded cassettes. Starting with the appearance in 1956 of the quadruplex VTR, areas discussed include the two-head helical scanning system, the performance of today's oxide tapes and heads, chrominance signal recording, operability, the cassette format, and the key requirement of long playing time. The continuing development of the video systems and the new techniques engendered are investigated.

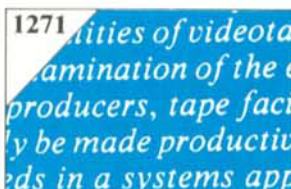


1264

Custom Designing a Unique Dual-Truck Video Remote Production System

D. D. Schneider and J. Furrer

As more and more video production moves out of the studio and onto location, an enormous growth in the number of outside-broadcast or remote-production vehicles has occurred. The cost of acquisition of a fully equipped unit from a turnkey supplier can be prohibitive. As a result, more facilities are turning toward on-site and in-house construction of these vehicles. This article details the design and construction of one such project — a unique, flexible dual-truck system.



1271

The Electronic Laboratory

E. M. Cohen

This article describes the current status of electronic post-production for single-camera productions, particularly those originating on film. The realities of videotape production and post-production are disclosed by examination of the equipment and procedures used. The enthusiasm of producers, tape facilities, and engineers for the new technology can only be made productive by matching technical realities with production needs in a systems approach; otherwise the gap between film and tape will be widened.



1274

SMPTE/USC Seminar on Stereo for Television

L. Blake

On May 11, 1985, the SMPTE Hollywood Section Education Committee took its first step toward informing its members and the Hollywood film and video communities on "Stereo for Television... A Whole Different Ballgame." The seminar was jointly sponsored under the auspices of the School of Cinema-Television, University of Southern California, and the SMPTE, and coordinated by USC's College of Continuing Education. It was held at the Norris Cinema Theatre on the USC campus, Los Angeles. Over 300 people attended the sold-out seminar, including representatives from Japan, Canada, and all parts of the U.S.