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In television tape recorders, these bands are not merely adjacent but actually overlap. The analysis of such systems of "exceptional bandwidth" emphasizes three points: (a) The instantaneous frequency and amplitude of a waveform cannot be uniquely defined; the approximations involved become serious in such systems. (b) It follows that one cannot synthesize a distortionless FM system. It is therefore important to distinguish the implicit distortion from that which may be avoided. (c) These systems are very sensitive to amplitude distortion and, especially to second-order components. Finally, the paper discusses the practical design of modulators and demodulators.

Combination of film pulldown time with the afterglow of the luminophore in television image recording (in Russian), P. G. Tager, *Zh. Nauch. i Prikl. Fot. i Kinemat.*, 10: 294-296, No. 4, July-Aug., 1965.

In order to calculate the best combination of pulldown time and afterglow of the screen, in the recording of television images on film, a computer program has been used. The results are presented graphically and discussed.—S.C.G.

Improvement of a motion-picture channel operating with a vidicon (in Russian), I. I. Sheffis, V. F. Rodionov, A. A. Sokolin, and K. O. Zagorovskii, *Tekh. Kino i Televideniya*, 9: 8-16, June, 1965.

Methods are discussed for improving the quality of the transmission by television of motion-picture films, based on the use of a complex antinoise correction, aperture correction (with automatic regulation of the degree of correction depending on signal swing) and a gamma-correction for the automatic control of the level depending on the density of the film.—S.C.G. (Translation of authors' abstract.)

Continuous-tone characteristics of a television image in the transmission of a negative film (in Russian), A. V. Vykhotets, *Tekh. Kino i Televideniya*, 9: 34-40, July 1965.

An expression is derived for the gradient of the continuous-tone characteristic of a television image in the tele-cine projection of motion-picture negatives. The problem of corrections to this characteristic is discussed.—S.C.G. (Translation of author's abstract.)

Project Ranger television system, B. P. Miller, *RCA Rev.*, 26: 424-449, No. 3, Sept. 1965.

The function of the Ranger television system was to transmit close-up pictures of the lunar surface to Earth. The philosophy, design, and performance of the television system are described. The television system consisted basically of six slow-scan vidicon cameras whose outputs were used to frequency-modulate two 60-w transmitters. The two signals, approximately 1 mc apart, were radiated by a high-gain parabolic antenna. The ground receiving station, located at Goldstone, Calif., used an 85-ft parabolic antenna. Several high-definition photographs of the lunar surface are included to provide a complete description of the performance of the system.



employment service

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 These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Recording Engineer. 15 yrs exp. in all phases of m-p sound recording including field mixing, recording, optical transfer, and maintenance. Will relocate. Résumé on request. A. Seidman, 46-05 Marathon Pkwy., Little Neck, N.Y. 11362.

Cameraman. Highly exp'd, thorough knowledge in all fields of camera work. French, English speaking. Desire posit. with high responsibilities in industrial, commercial or other film production. Available immediately. Résumé on request. Write: George Miklachevsky, (in April) Wiesenstrasse 8, CH 8700 Kusnacht-ZH, Switzerland; (from May) c/o Epanchin, 27 Brown St., Sea Cliff, N.Y. 11579.

A/V Communication Specialist. American established in Europe. Fluent several languages. Senior executive positions consulting to governments, schools, UN agencies, industry. Educational technology, industrial training, ETV. Industry/education/documentary film production. Currently holding seminars throughout Europe, writing, and consulting on major TV current-affairs series. Seeks challenging, responsible, rewarding tie with US firm. Eric Hecksher, 26 Rue de Tourville, 78 St-Germain-en-Laye, France.

Electronic Engineer. B.E.E., 1943. M.E.E., 1951. Diversified research and development exp. in instrumentation and communications. Desire challenging position in N.Y.C. in TV or related areas in m-p. Write Apt. S.T., 578 E. 16th St., Brooklyn, N.Y. 11226.

Cameraman-Editor-Recordist. 2 years college, 16 years exp. in electronics and photography. At home in all phases recording, sound, m-p and still photography, editing. Desire to relocate on Eastern Seaboard in responsible position with reliable concern. Résumé on request. Gillespie, 2505 Pershing Ave., Richmond, Va. 23228.

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Top Flight Cameraman to join staff of leading Pacific Northwest network-affiliated TV station. Varied assignments in news, documentary and general program filming. College education reqd. with general or liberal arts emphasis. Seek technical proficiency plus journalistic and artistic awareness. Please write Ralph Umbarger, 320 Aurora Ave., N., Seattle, Wash. 98109.

Faculty Openings at R.I.T. The School of Photography of the Rochester Institute of Technology requires additions to the faculty in the growing Dept. of Photographic Science and Instrumentation. Inquiries will be welcomed from those interested in a career in teaching and with experience in some aspect of photographic science or instrumentation, such as systems design, image evaluation, optics, sensitometry and processing control. Applicants should have a degree in science or engineering preferably at the M.S. level or higher. Inquiries should be addressed to Prof. C. B. Neblette, Dean of the College of Graphic Arts and Photography, Rochester Institute of Technology, Rochester, N.Y. 14608.

Laboratory Quality Control. Well established m-p lab is seeking trainee and experienced technicians for general B & W sensitometric control work on day shift. Exp. with control equip., charts, graphs desirable. Must be accurate, reliable. Opportunity for advancement in growing lab with B & W and color operations. Send salary requirements and résumé to Robert M. Smith, Du Art Film Labs, Inc., 245 W. 55th St., N.Y., N.Y. 10019.

Photographic Chemist. Expanding lab with B & W and color operations is seeking photographic chemist with exp. in processing solution control and analytical procedures. Must be accurate & reliable. Opportunity for advancement in growing lab. Send résumé including salary requirement to Robert M. Smith, Du Art Film Labs, Inc., 245 W. 55th St., N.Y., N.Y. 10019.

Field Sales Engineer. Well established co., a leader in the manufacture of precision hi-speed m-p cameras offers posit. with excellent opportunity and future to qualified man with a minimum of 6 years exp. in photo-instrumentation or related field. Work from Los Angeles area covering Southwestern territory. Submit résumé to C. I. Villagran, D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif.

First Cameraman. Must have strong background in creative lighting and heavy industrial shooting. Self-starter who can work on his own or with small crew. Fair amount of out-of-town-travel. Fred Berney, Academy-McLarty Prod., 20 Mesmer St., Buffalo, N.Y.

Project Engineer & Design Engineer for Television Systems. Project Engineer responsible for technical planning, coordination with suppliers, liaison with customer engineers, etc. He must be able to use practical engineering methods to solve wide range of technical problems. Exp. in electro-mechanical design and familiarity with electronic circuitry important. Design Engineer must have TV equipment exp. Responsible for trouble shooting, developing modifications for special requirements and designing new equipment to meet high performance goals. Positions are with small TV co. having outstanding record in high quality television display systems. Each position will involve major responsibilities and individual initiative. Send résumé or letter describing your background to: Theatre Network Television, Inc., 62-10 34th Ave. Woodside, N.Y. 11377.

Filmstrip and Slide-Film Cameraman. For Ox-berry animation camera. Excellent opportunity. Exp. only. Bebell Color Labs, 108 W. 24th St., New York, N.Y. WA 4-8573.

Cameraman-Editor. For permanent posit. with in-plant industrial m-p unit producing sales, public relations, educational and documentary films. Exp. with editing equipment and techniques, lighting, the operation of Mitchell and Arriflex cameras preferred. Submit résumé and salary requirements to J. W. Lovell, General Electric Co., Bldg. #6, Room #231, 1 River Rd., Schenectady, N.Y. 12305.

Journals Available/Wanted

These notices are published as a service to expedite disposal and acquisition of out-of-print Journals. Please write direct to the persons and addresses listed.

A complete set of *Jours.* Jan. 1946 to Jan. 1965, including indexes, directories and supplements, in perfect condition. Also High-Speed Photography 1949, 1954; Developments in Stereophony 1953; Color Sensitometry. Submit offer to Harry Lehman, 4911 Laurel Canyon Blvd., North Hollywood, Calif.

Feb. 1955; May-Dec. 1955; complete 1956; July, Sept., Dec. 1959; Jan. 1960; July-Dec. 1960; 1961-1964 complete; 1965-to date. Includes any indexes, directories, etc. Good condition. Best offer. Write: Robert J. Katzeff, 5 Hampshire Lane, Stamford, Conn. 06905.

1955-65 *Jours.* Any offer. R. W. Casey, 6259 Coldwater Canyon, N. Hollywood, Calif.

For sale: *Jour.*, 1949-1964. Excellent condition, unbound, available only as complete set. Write: Harry Wuest, 220 E. 60 St., New York, N. Y. 10022.

For Sale: Back issues of *Jour.* 1948-1964 including March 1949 and Nov. 1949 High-Speed Photography issues. Some years incomplete. Make offer for all part or single copies. All letters answered. K. D. Clement, 6612 Andasol Ave., Van Nuys, Calif. 91406.

Dec. 1964; complete 1947 (except Feb.); complete 1948 through 1955; Dec. 1957; Jan., Feb., Mar. 1958; complete 1959; Jan., Feb., Mar. 1960; July through Dec. 1963; complete 1964. Includes indexes, directories, and supplements. In perfect condition. Best offer. Write: Joseph W. MacDonald 948 1/2 North Kingsley Drive, Hollywood, Calif. 90029.

Journal copies: Single copies of the *Transactions* or *Journal* from 1916 to date, when in stock, are available from Society Headquarters, 9 E. 41st St., New York, N.Y. 10017, at \$2.00 each.

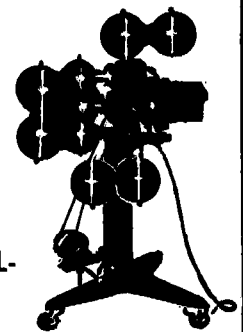
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Journal copies, special two-part issues, (April 1953, August 1953, September 1953), are sold at \$2.50 each. *Journal* indexes: for 1930-1935, \$2.00; for 1936 to 1945, \$3.00; for 1946-1950, \$2.00; for 1951-1955, \$2.50; for 1956-1960, \$2.50.

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