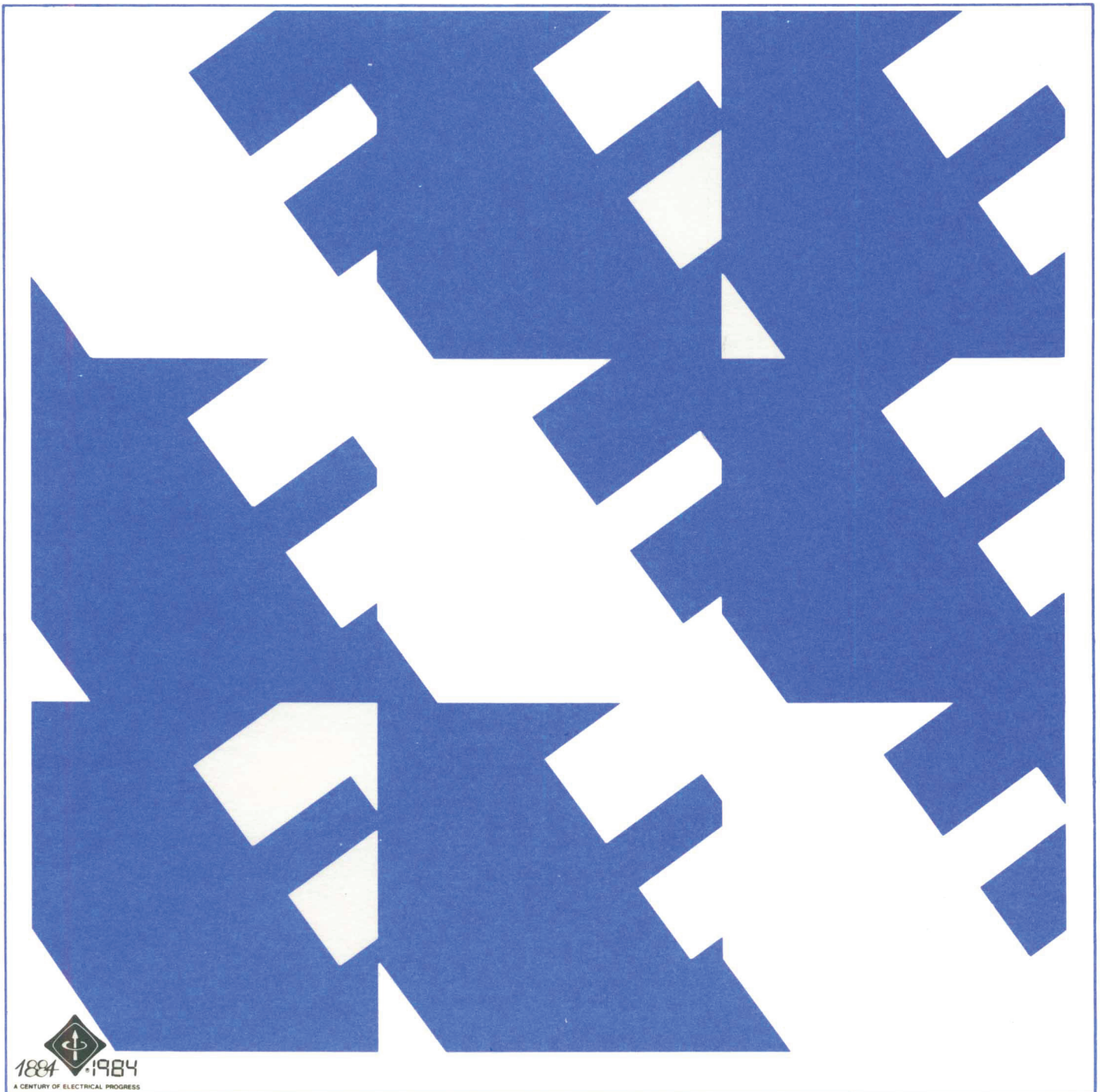


IEEE Standard for Measurement of Luminance Signal-to-Noise Ratio in Video Magnetic-Tape Recording Systems

IEEE Std 618-1984



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IEEE Standard for Measurement of Luminance Signal-to-Noise Ratio in Video Magnetic-Tape Recording Systems

Sponsor

Audio-Video Techniques Technical Committee of the
Broadcasting Group of the
IEEE Broadcast, Cable, and Consumer Electronics Society

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Foreword

(This Foreword is not a part of IEEE Std 618-1984, IEEE Standard for Measurement of Luminance Signal-to-Noise Ratio in Video Magnetic-Tape Recording Systems.)

The Video Recording Measurements Subcommittee G2.1.5 began development of a standard for signal-to-noise measurement in video magnetic-tape recorders on November 6, 1974. The resulting document formalizes measuring procedures and the details of instrumentation within the framework of existing practice. The format chosen for the specification has enabled inclusion of the commonly used noise measuring techniques considered by the committee to possess the accuracy, repeatability, and uniformity to warrant status in a standard.

Suggestions for improvement of this standard will be welcomed. They should be sent to:

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IEEE Standard for Measurement of Luminance Signal-to-Noise Ratio in Video Magnetic-Tape Recording Systems

1. Scope

This standard specifies methods for measurement of the luminance signal-to-noise ratio of video magnetic-tape recording systems operating on CCIR System M (525/60) with NTSC color encoding. See [B1], [B2], [B3], [B4], and [B5].¹

2. References

When the American National Standards referred to in this standard are superseded by a revision approved by the American National Standards Institute, Inc, the revision shall apply.

[1] ANSI C98.1-1978, American National Standard Dimensions of 2-in Video Magnetic Tape.²

[2] ANSI V98.2-1982, American National Standard Specifications of Monochrome Video Magnetic-Tape Leader.

[3] ANSI V98.3-1980, American National Standard Frequency Response and Operating Level of Recorders and Reproducers for Audio 1 Record for 2 in Quadruplex Video Magnetic-Tape Operating at 15 and 7.5 in/s.

[4] ANSI C98.4-1970(R1976), American National Standard, Speed of 2 in Tape for Quadruplex Video Magnetic Tape Recording.

[5] ANSI C98.5-1970(R1976), American National Standard Dimensions of 2 in Video Magnetic-Tape Reels.

[6] ANSI V98.6-1981, American National Standard Dimensions of Video, Audio, and Tracking Control Records on 2 in Video Magnetic-Tape Quadruplex Recorded at 15 and 7.5 in/s.

[7] ANSI V98.8-1982, American National Standard Specifications for Audio Operating Level and Multifrequency Test Tape for Quadruplex Video Magnetic-Tape Recorders Operating at 15 in/s (381 mm/s).

[8] ANSI C98.9-1967(R1975), American National Standard Specifications for Color Video Magnetic-Tape Leader.

[9] ANSI V98.11-1982, American National Standard Specifications for an Audio Operating Level and Multifrequency Test Tape for Quadruplex Video Magnetic-Tape Recorders Operating at 7.5 in/s (190.5 mm/s).

[10] ANSI V98.12M-1981, American National Standard Time and Control Code for Video and Audio Tape for 525 Line/60 Field Television Systems.

[11] ANSI V98.13-1981, American National Standard Dimensions of Cartridge Spools for 2 in Quadruplex Video Magnetic Tape.

¹ The numbers in brackets preceded by B correspond to those of the Bibliography in Section 8.

² ANSI publications are available from the Sales Department, American National Standard Institute, 1430 Broadway, New York, NY 10018.