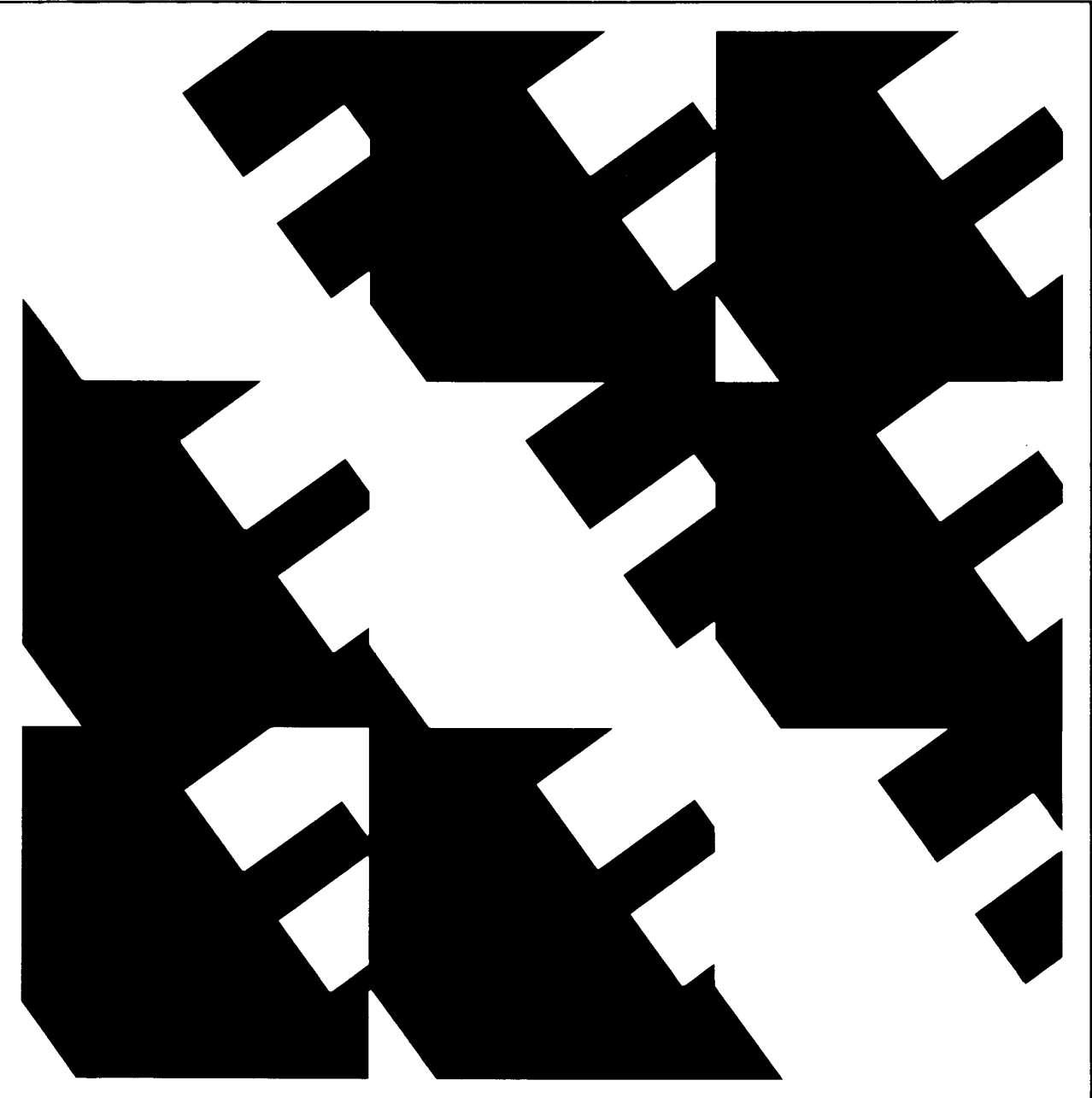


# IEEE Standard for Series Capacitors in Power Systems

IEEE Std 824-1985



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# **IEEE Standard for Series Capacitors in Power Systems**

Sponsor

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IEEE Power Engineering Society**

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## Foreword

(This Foreword is not a part of IEEE Std 824-1985, IEEE Standard for Series Capacitors in Power Systems.)

In 1968, at the request of ANSI C55 on Capacitors, the Capacitor Subcommittee of the IEEE Transmission and Distribution Committee established a working group for the preparation of a standard for series capacitors. The working group was designated Subcommittee C55.2 on Series Capacitors and was composed of members from the IEEE Transmission and Distribution Capacitors Subcommittee.

The purpose of the standard as originally conceived was to provide requirements for capacitors for series connection to power systems for transmission and distribution line compensation.

The standard was first approved as ANSI C55.2-1974, American National Standard Series Capacitors for Transmission and Distribution-Line Compensation.

Revision of this standard was undertaken in response to a need created by the continuing changes in capacitor technology, and improvements in related control and protective systems. The principal objectives of this revision are:

- 1) To provide a basis for uniformity in designs and testing
- 2) To assist users involved in specifications and applications of series capacitors for power systems

This standard applies to series capacitors and component parts. It contains general and specific information on overvoltage protective devices. Specific information is given for gap-type overvoltage protective devices. The same functional requirements apply to other types of overvoltage protective devices that are not specifically addressed in this standard (for example, protection schemes employing nonlinear resistors).

This standard was revised by an IEEE working group sponsored by the Capacitor Subcommittee of the Transmission and Distribution Committee of the IEEE Power Engineering Society.

At the time the Capacitor Subcommittee approved this standard, it had the following membership:

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