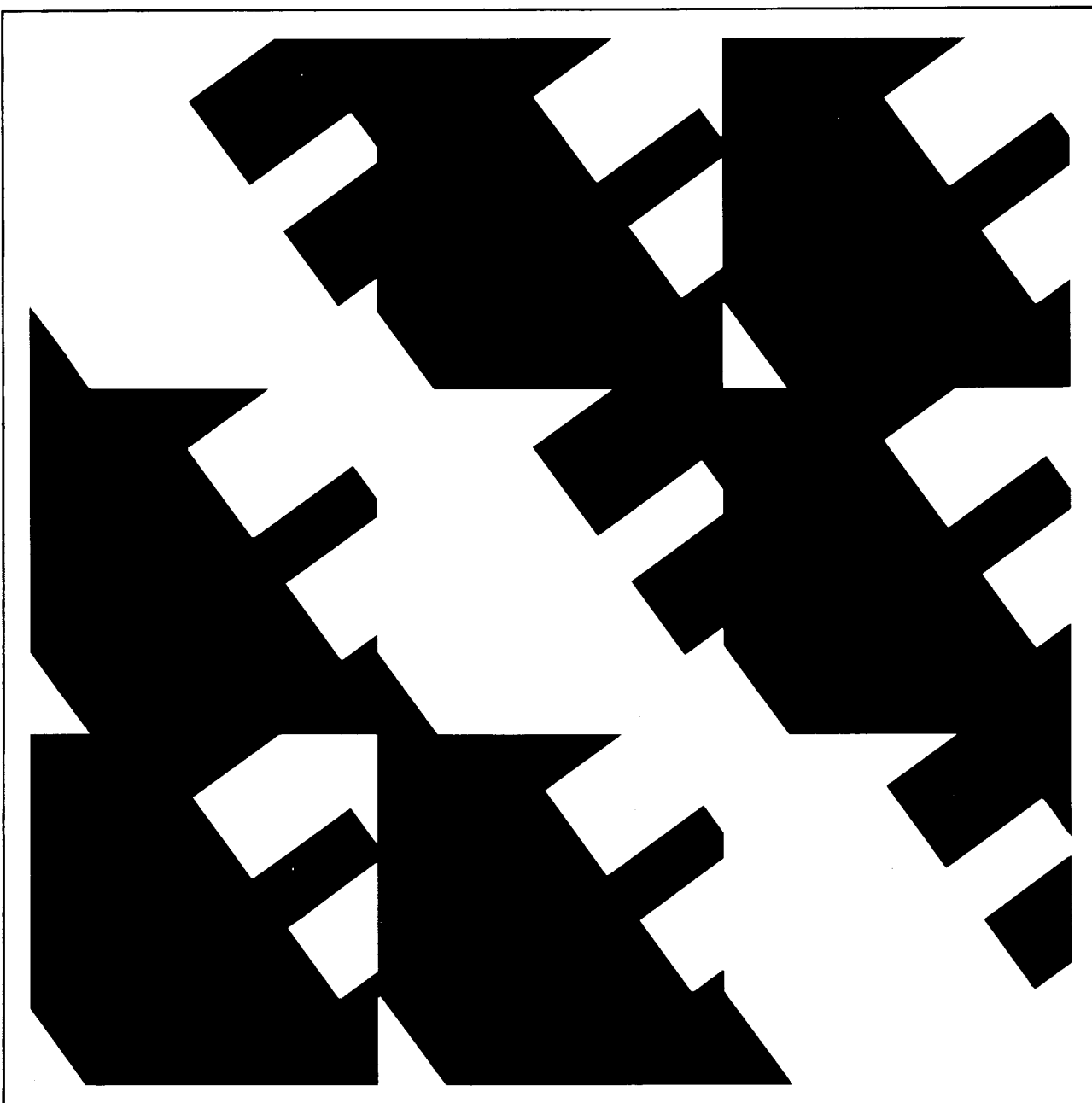


IEEE Standard Taxonomy for Software Engineering Standards

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Sponsor
**Software Engineering Subcommittee
of the
Technical Committee on Software Engineering
of the
IEEE Computer Society**

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Foreword

(This Foreword is not a part of ANSI/IEEE Std 1002-1987, IEEE Standard Taxonomy for Software Engineering Standards.)

Software Engineering is an emerging field. As part of that process a set of software engineering standards is being developed. They are used to:

- (1) Improve communications between and among software engineers and others.
- (2) Achieve economy of cost, human effort, and essential materials.
- (3) Institutionalize practical solutions to recurring problems.
- (4) Achieve predictability of cost and quality.
- (5) Establish norms of acceptable professional practice.

To support the development, integration, and use of software engineering standards, a need for a taxonomy is recognized. A project was approved in June 1983 to define a taxonomy as part of a voluntary consensus process. This document is the result of that process.

This is one of an evolving set of integrated IEEE Software Engineering standards, recommended practices, and guides. The set currently includes:

ANSI/IEEE Std 729-1983, IEEE Standard Glossary of Software Engineering Terminology
ANSI/IEEE Std 730-1984, IEEE Standard for Software Quality Assurance Plans
ANSI/IEEE Std 828-1983, IEEE Standard for Software Configuration Management Plans
ANSI/IEEE Std 829-1983, IEEE Standard for Software Test Documentation
ANSI/IEEE Std 830-1984, IEEE Guide to Software Requirements Specifications
ANSI/IEEE Std 983-1986, IEEE Guide for Software Quality Assurance Planning
ANSI/IEEE Std 1008-1987, IEEE Standard for Software Unit Testing

This standard may be used in conjunction with this set of standards or separately.

The taxonomy can be applied, but is not limited to, project, program, organization, industrial, national, and international standards. As a document, this standard should be useful to those who develop, use, manage, and evaluate software engineering standards. The taxonomy provides a:

- (1) Comprehensive scheme for classifying software engineering standards, recommended practices, and guides.
- (2) Framework for identifying the need for new software engineering standards, recommended practices, and guides.
- (3) Comprehensive scheme for analyzing a set of software engineering standards, recommended practices, and guides appropriate for a given industry, company, program, project, or particular work assignment.
- (4) Framework for comparing sets of software engineering standards, recommended practices, and guides to support the selection of the most useful set for a particular software product.

The application of the taxonomy to achieve the above purposes is described in the appendix.

Keywords applicable to this standard are: nomenclature standard, notation standard, software engineering.

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