



IFAC

INFORMATION BULLETIN

No. **47**

July 30, 1968

International Federation
of Automatic Control

Editors: Derek H. Barlow, London
B. N. Naumov, Moscow

Published by the IFAC Secretary
G. Ruppel, Düsseldorf
Postfach 1139 Germany

Automatic Control Terminology

On recommendation of the IFAC Terminology Committee Chairman Dr. Mason the following compilation on 1968 U.S. standards activity related to the control field, as prepared by E.J. Mastascusa on behalf of the American Automatic Control Council's Terminology Committee, is reproduced from "Control Engineering", vol. 15, No.5 (May 1968), pp. 95/96.

Terms and Symbols for a variety of subjects and equipment such as: relays, semiconductor devices, transducers, servovalves, and displays are covered by these standards. Current work being reported includes digital position transducers, SCR adjustable speed drives, and fluidic standards.

This updates the report on Automatic Control Terminology, Section B, on p. 4 of the IFAC Information Bulletin No. 40.

EIA

Electronic Industries Assn.
2001 Eye Street, N. W.
Washington, D. C. 20006

EIA has published close to 250 "recommended standards". These recommended standards, plus EIA bulletins, test charts, JEDEC suggested standards and JEDEC publications on electron tubes and semiconductor devices are included and are described in *An Index of Standards and Engineering Publications* available from EIA.

definitions for a proposed IEEE dictionary by using a glossary of 62 modern control terms and 73 selected terms from the USA Standards Committee C-85 *Terminology for Automatic Control*, previously published. It is hoped that the 135 terms will be used in an IEEE standard and that the 62 modern terms will eventually be used in a revised C-85 standard.

IPC

The Institute of Printed Circuits, Inc.
3525 Peterson Road
Chicago, Ill. 60645

IPC publishes a monthly *Technical Abstract Bulletin* covering pertinent articles and patents (worldwide), available to members. Other publications include:

1. *Flexible Flat Cable Handbook*. Covers design considerations for flexible printed wiring (weight comparison, crosstalk, shielding) terminations for flexible flat cables.

2. *Repair of Printed Wiring Boards*; IPC-R-700

3. *Acceptability of Printed Circuit Boards*; IPC-A-600 contains photographs of various preferred, acceptable and unacceptable conditions.

EJC

Engineers Joint Council
345 E. 47th St.
New York, N. Y. 10017

Engineers Joint Council and the Department of Defense will shortly issue a *Thesaurus of Engineering and Scientific Terms*. The committee responsible for EJC's part of this joint project was chaired by R. Dodds. Copies are available from EJC at \$25.00 for hard covers and \$19.50 in soft cover.

IEEE

Institute of Electrical and
Electronics Engineers
345 E. 47th St.
New York, N. Y. 10017

The Standards Liaison Committee of the IEEE Group on Automatic Control, chaired by G. S. Axelby, has concentrated on formulating standard

ISA

Instrument Society of America
530 William Penn Place
Pittsburgh, Pa. 15219

Focal point for ISA information retrieval activities is *Instrumentation Index*, edited by J. E. French.

Pertinent standards committees are:

S 5.1 Instrumentation Symbols and Identification, chairman: G. Platt

SP 26 Series: Dynamic Response Testing, chairman: E. Ryker

S 37.6 Potentiometric Pressure Transducers, chairman: H. N. Norton

NARM National Assn. of Relay Mfrs.
P. O. Box 7765
Phoenix, Ariz. 85011

The Military Specifications Industry Advisory Committee chaired by H. D. Steinback is cooperating with the EIA to write relay standards and specifications.

NARM has just published the *Standard for Electro-Magnetic Relays & Industrial and/or Commercial Applications. Definitions of Relay Terms* was revised as of April 1967.

NEMA National Electrical Manufacturers Assn.
155 E. 44th St.
New York, N. Y. 10017

NEMA has completed four projects and published reports as supplements to NEMA Standards Publication AS 1-1962, *Standards for Industrial and Automatic Systems*. These are:

1. standards providing a method of specifying the steady-state performance of feedback control systems in terms of operating deviation and service deviation bands.
2. definitions applicable to digital position transducers and standards for rotary incremental digital position transducers.
3. standards for printed wiring board assemblies.
4. standards for general-purpose adjustable-voltage packaged drive systems where dc armature power is obtained from ac lines using SCR's.

A. P. DiVincenzo is chairman of the Systems Group.

NFPA National Fluid Power Assn.
P. O. Box 49
Thiensville, Wisc. 53092

The following NFPA standards have been published in recent months or will be published soon.

T3.7.1 *Standard Glossary of Terms for Fluidic Devices* contains basic definitions of devices used in fluidic systems; committee chairman is F. Moynihan
T3.10.67.3 *Glossary of Terms for Hydraulic Fluid Power Filters and Separators* is the latest in a group

of standards covering that area. This continuing effort is guided by J. Farris.

T3.17.1 *53 Terms for Electrohydraulic Servovalves*.

SCI Simulation Councils, Inc.
P. O. Box 2228
La Jolla, Calif. 92037

The SCI Standards Committee, under chairman F. C. Rieman has issued a rough draft of a proposed standard for hybrid computer linkage systems. In addition to definitions, the proposed standard contains a number of special tests recommended for A-D and D-A linkage systems.

SCI has also published a brochure *Uniform Graphics for Simulation* for prospective authors.

SAE Society of Automotive Engineers, Inc.
485 Lexington Ave.
New York, N. Y. 10017

The SAE's aerospace subcommittee on Propulsion System and Associated Equipment has published SAE report ARP993, *Fluidic Technology*, to promote uniformity in terminology, symbols, and test methods.

The terminology section of ARP993 covers: amplifiers, sensors, transducers, actuators, displays, logic devices, circuit elements, and nomenclature and units. Schematics standards are for analog and digital amplifiers, passive logic devices, and general circuit elements; definitions include digital and proportional elements.

VRCI Variable Resistive Components Institute
3525 Peterson Rd.
Chicago, Ill. 60645

VRCI (formerly the Precision Potentiometer Manufacturer's Assn.) has issued an industry standard for both wire-wound and nonwire-wound precision potentiometers. Included is VRCI-P-100, *Terms and Definitions*, and VRCI-P-200 which identifies new *Inspection and Test Procedure Standards*. Copies are available from VRCI at \$3.00 each.

General chairman of the VRCI Standards and Nomenclature Committee is W. Thoele. □

ACKNOWLEDGMENT

Other members of the terminology committee assisting in the preparation of this report were R. H. Kohr, W. J. Kudlaty, F. M. Sullivan, R. J. Woodcock, and the chairman, H. L. Mason.