

Mechanical Engineering Terminology

Glossary of technical engineering terminology for professional engineers and planners interested in coastal engineering. with the principles accepted in textbooks on the subject. The key language is English. The English This Dictionary is designed for people who term is followed -by its German, French, Dutch have just started studying mechanical engineering and Russian equivalents, and by an illustration. terms in a foreign language, particularly for those In most cases, this is a simplified drawing of the who have little or no knowledge of either the terms object or a diagram of the process. Sometimes, or their meaning. The latter category of readers other self-explanatory devices are used - mathe may find it useful, in addition to the translation matical signs, chemical formulas or examples of of the term, to have an explanation of its meaning the chemical composition of alloys. as well. In the Dictionary, such explanation is The terms are numbered. The numbers serve, provided by means of internationally accepted first, to relate the term to the drawing, and, second, symbols, formulas, charts, diagrams, plans and they facilitate the f'mding of the necessary trans drawings. In this way, illustrations serve as a lation of a term via the alphabetical index. Each universal intermediary between languages. As a number consists of two parts separated by a full rule, the illustration for a term consists of that stop, e. g. 12. 5.

Definitions of terms concerned with advanced chemical and physical techniques relating to surface engineering. References to more extensive articles supplied, and a short bibliography of monograph sources are included.

The Dictionary of Mechanical Engineering provides clearly-written, easy-to-understand definitions for over 4,500 terms. In addition to covering the more traditional areas of the field, this new edition also defines the terminology of the rapidly advancing areas of small size mechanical engineering: micromachining and nanotechnology. Nomenclature used in the manufacture of composites has also been added. Extensively cross-referenced, the Dictionary is an indispensable desk reference for mechanical engineers worldwide.

A Dictionary of Mechanical Engineering Terms Basic terminology A Dictionary of Mechanical Engineering Terms Part 1. More Modern Terms : Part 2. Basic Terminology : [In 1] A Dictionary of Mechanical Engineering Oxford University Press

This is the most comprehensive dictionary of maintenance and reliability terms ever compiled, covering the process, manufacturing, and other related industries, every major area of engineering used in industry, and more. The over 15,000 entries are all alphabetically arranged and include special features to encourage usage and understanding. They are supplemented by hundreds of figures and tables that clearly demonstrate the principles & concepts behind important process control, instrumentation, reliability, machinery, asset management, lubrication, corrosion, and much much more. With contributions by leading researchers in the field: Zaki Yamani Bin Zakaria Department, Chemical Engineering, Faculty Universiti Teknologi Malaysia, Malaysia Prof. Jelenka B. Savkovic-Stevanovic, Chemical Engineering Dept, University of Belgrade, Serbia Jim Drago, PE, Garlock an EnPro Industries family of companies, USA Robert Perez, President of Pumpcalcs, USA Luiz Alberto Verri, Independent Consultatnt, Verri Veritatis Consultoria, Brasil Matt Tones, Garlock an EnPro Industries family of companies, USA Dr. Reza Javaherdashti, formerly with Qatar University, Doha-Qatar Prof. Semra Bilgic, Faculty of Sciences, Department of Physical Chemistry, Ankara University, Turkey Dr. Mazura Jusoh , Chemical Engineering Department, Universiti Teknologi Malaysia Jayesh Ramesh Tekchandaney, Unique Mixers and Furnaces Pvt. Ltd. Dr. Henry Tan, Senior Lecturer in Safety & Reliability Engineering, and Subsea Engineering, School of Engineering, University of Aberdeen Fiddoson Fiddo, School of Engineering, University of Aberdeen Prof. Roy Johnsen, NTNU, Norway Prof. N. Sitaram , Thermal Turbomachines Laboratory, Department of Mechanical Engineering, IIT Madras, Chennai India Ghazaleh Mohammadali, Iran Oil Gas Network Members' Services Greg Livelli, ABB Instrumentation, Warminster, Pennsylvania, USA Gas Processors Suppliers Association (GPSA)

The objectives of this report were to determine the extent of common terminology, the degree of ambiguity of term meanings, and to evaluate the possibility of creating a unified vocabulary useful in the origination, storage, retrieval and dissemination of engineering information. The methods of achieving these objectives were to collect from the major engineering societies (plus Defense Documentation Center, Engineering Index, Engineering Societies Library and NASA) subject heading lists, thesauri, glossaries or term lists which they consider useful in indexing. Terms contributed by more than one organization were selected for most intensive consideration by ten subcommittees covering the major fields of engineering. During twenty-seven weeks of full-time effort the subcommittees selected terms adjudged of most utility within the engineering profession, resolved any serious ambiguities in term meaning, developed and recorded cross-references between terms, and provided scope notes and term definitions as needed. A total of about 10,500 terms were treated during this period. A 1000 term sample of the proposed vocabulary was analyzed from the results of the analysis. (Author).

The Combinatory vocabulary of CAD-CAM in mechanical engineering, ' or, computer-aided design and manufacturing in machining, is to compile the phraseologisms of a coherent set of mostly standardized terms that are commonly used by specialists in the field. This pilot research does not provide an exhaustive list of terms. The dictionary gives a user's guide, the detailed French-English vocabulary, and a short English-French glossary to access terms in the main list.

This Dictionary is designed for people who have just started studying mechanical engineering terms in a foreign language, particularly for those who have little or no knowledge of either the terms or their meaning. The latter category of readers may find it useful, in addition to the translation of the term, to have an explanation of its meaning as well. In the Dictionary, such explanation is provided by means of internationally accepted symbols, formulas, charts, diagrams, plans and drawings. In this way, illustrations serve as a universal intermediary between languages. As a rule, the illustration for a term consists of that graphic representation which is most frequently used in explaining the term concerned in instructional and technical literature (conventional graphic representation of the term). Apart from being informative, the illustrations also help remember the terms themselves. In the Dictionary, therefore, illustrations are provided even for those terms whose meaning would be understood without the aid of graphic symbols. At the same time, the author had to leave out many terms - even important ones - which do not lend themselves to illustration. The terms are grouped according to subject. This makes it possible to study the terminology pertaining to the subjects which interest the user most. This should also help speed up the assimilation of the terms, since the student will be able to remember a group of terms pertaining to a common subject. When translating texts from one language into another, one is helped by the alphabetical indexes given at the end of the Dictionary.

A Dictionary of Mechanical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series. In

over 8,500 clear and concise alphabetical entries, and with many helpful line drawings, it provides definitions and explanations for mechanical engineering terms in the core areas of design, stress analysis, dynamics and vibrations, thermodynamics, and fluid mechanics. Topics covered include heat transfer, combustion, control, lubrication, robotics, instrumentation, and measurement. Where relevant, the dictionary also touches on related subject areas such as acoustics, bioengineering, chemical engineering, civil engineering, aeronautical engineering, environmental engineering, and materials science. To expand its coverage, the dictionary also lists useful entry-level web links which are regularly updated on a dedicated companion website of the dictionary. Extensively cross-referenced, this excellent new volume is the most comprehensive and authoritative dictionary of its kind. It is an essential reference for students of mechanical engineering and for anyone with an interest in the subject.

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