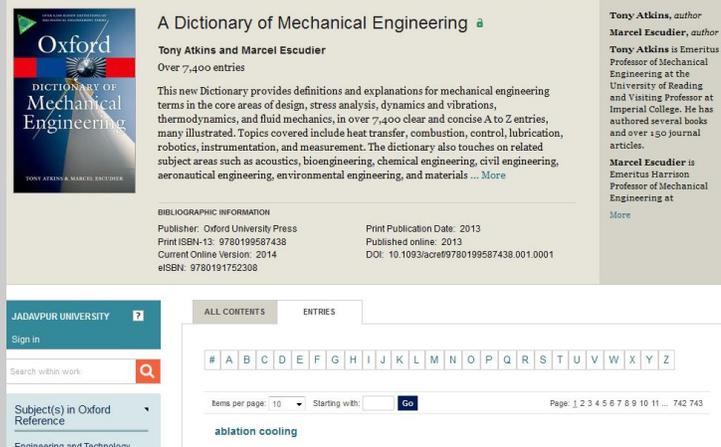


Home Page


The screenshot shows the home page for 'A Dictionary of Mechanical Engineering' on the Oxford Reference platform. The page features the Oxford logo and the title of the dictionary. It lists the authors, Tony Atkins and Marcel Escudier, and states that there are over 7,400 entries. A brief description of the dictionary's content is provided, covering design, stress analysis, dynamics, and vibrations. Bibliographic information, including the publisher (Oxford University Press), ISBN-13 (9780199587438), and current online version (2014), is also displayed. A search bar is visible at the bottom left, and a navigation menu is at the bottom right.

Logo

URL

<http://www.oxfordreference.com/view/10.1093/acref/9780199587438.01.0001/acref-9780199587438>

Subject

Mechanical engineering – Dictionaries

Accessibility

Partially Free

Language

English

Publisher

Oxford University Press

Brief History

First edition was published in 2013 as A Dictionary of Mechanical engineering. It was also published online in 2013 and the current online version is 2014. Print ISBN-13: 9780199587438 and eISBN: 9780191752308.

Scope and Coverage

It is the one of the popular dictionary of mechanical engineering available online. This dictionary contains over 7500 entries. This dictionary covers definitions and explanations for mechanical engineering terms in the core areas of design, stress analysis, dynamics

and vibrations, thermodynamics, and fluid mechanics etc. It covered other areas like heat transfer, combustion, control, lubrication, robotics, instrumentation, and measurement. This mechanical engineering dictionary also touches on related subject areas such as acoustics, bioengineering, aeronautical engineering, chemical engineering, civil engineering, environmental engineering, and materials science.

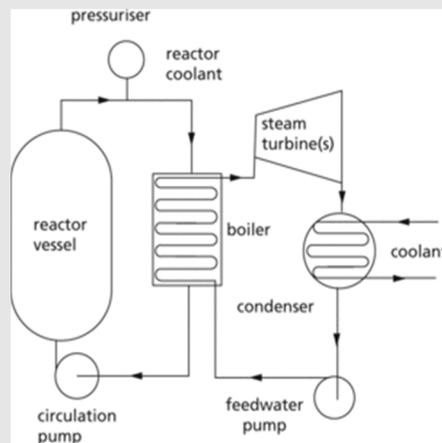
Kind of Information

The meaning of the terms, description and short notes on those terms are available here. See references are also available here. Sometimes diagrams/illustrations are present here. Some terms within the meaning of a particular entry are cross referenced. Related terms of a particular entry are also given in hyper link form. Some examples are given below for clear understanding.

“nuclear fission (fission)”

A reaction in which the nucleus of a heavy atom splits into lighter nuclei accompanied by the release of large amounts of thermal energy. In a **nuclear power plant**, the thermal energy needed to produce steam is derived from controlled nuclear fission in a **nuclear reactor**. The most common fuels are isotopes of uranium and plutonium. Either pressurized water or a gas such as carbon dioxide or helium (**gas-cooled nuclear reactor**) is commonly used to cool the reactor core and generate steam in a boiler. In the **advanced gas-cooled reactor (AGR)** graphite is the neutron moderator, enriched uranium is the fuel, and carbon dioxide gas is the coolant. The gas pressure is about 40 bar and the highest gas temperature 640°C. In a **supercritical-water reactor (SCWR)** the water is at supercritical pressure. In a **boiling-water reactor** steam is generated within the reactor itself.

(underlined terms are hyperlinked)



(nuclear power plant)

“absolute humidity”

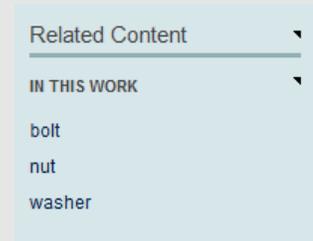
See specific humidity.

“Babbitt metal”

See [bearing](#).

“tab washer (lock washer)”

A [washer](#) with one or more protruding tabs which can be bent in such a way that a [nut](#) or [bolt](#) head is prevented from becoming loose. (underlined terms are hyperlinked)

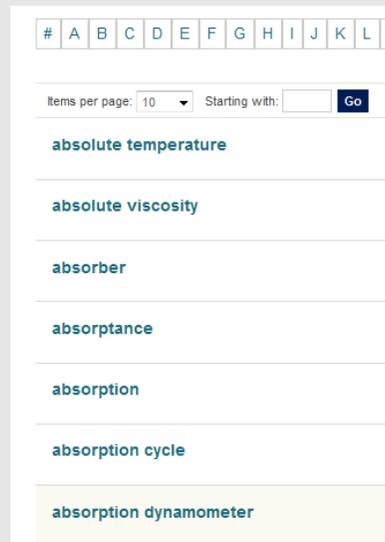


Special Features

- ❖ Subject wise arrangement of various Oxford reference tools is available in this site.
- ❖ Links to Gmail, Yahoo mail and various social networking sites like Facebook, Twitter, Pinterest, Google plus etc. are available.
- ❖ If one types a particular term in the search bar the list of books published from Oxford, on that specific topic is found.
- ❖ From the Dictionary homepage, under the heading Reference type, links to Overview pages of books, subject reference, historical timeline, quotations, bilingual dictionaries and other English dictionaries are provided.
- ❖ The site provides a platform for Authors community.
- ❖ Link to news related to the domain of Oxford publication.
- ❖ For fast search one can directly get the word by writing the starting alphabets of a word at the arrangement page.

Arrangement Pattern

Here terms are arranged in alphabetic order. For example under the alphabet ‘A’ the terms absolute temperature, absolute viscosity, absorber, absorptance, absorption, absorption cycle, absorption dynamometer etc. are arranged in alphabetic order. An example through print screen is given below.



Remarks

It is an excellent new work and the most comprehensive dictionary of its kind. It is an essential reference for students of mechanical engineering and for anyone with an interest in the subject. It is beautifully illustrated and written in a clear and concise style.

Comparable Tools

- Free Engineering Dictionary (<http://www.engineering-dictionary.org/>)
- McGraw-Hill Dictionary of Engineering (<http://www.dres.ir/sazeh/doclib9/mcgraw-hill%20dictionary%20of%20engineering%20second%20edition.pdf>)

Date of Access

Aug 05, 2016