



**ADAMSON UNIVERSITY LIBRARY  
WEBLINKS**

**MECHANICAL ENGINEERING**

**NOVEMBER 2016**

## ***Introduction***

***Weblinks*** are lists of internet resources on a particular subject.

***Weblinks*** are basically compiled by the Reference Librarian to assist the students in their search of information through internet resources. Most links are free; some requires fees for usage or access of information.

***Please use your best judgment when reviewing the information contained within the links.***

For comments and suggestions on this Weblinks, please send to Ms. Adoracion L. Ventura at **[aventura@adamson.edu.ph](mailto:aventura@adamson.edu.ph)** or contact her at Telephone number 524-20-11 local 131.

## **ALTERNATIVE FUELS DATA CENTER**

<http://www.afdc.energy.gov/>

[Retrieved November 10, 2016]

The Alternative Fuels Data Center (AFDC) is a comprehensive clearinghouse of information about advanced transportation technologies. The AFDC offers transportation decision makers unbiased information, data, and tools related to the deployment of alternative fuels and advanced vehicles.

## **AMERICAN SOCIETY OF TESTING MATERIAL (ASTM)**

<https://www.astm.org/>

[Retrieved November 28, 2016]

An open forum for the development of high-quality, market relevant international standards used around the globe. Combined with innovative business services, ASTM standards enhance performance and help everyone who have confidence in the things they buy and use – from the toy in a child’s hand to the aircraft overhead. Working across borders, disciplines and industries ASTM harnesses the expertise of over 30,000 members to create consensus and improve performance in manufacturing and materials, products and processes, systems and services.

## **AMERICAN WELDING SOCIETY**

<http://www.aws.org/about>

[Retrieved November 21, 2016]

The American Welding Society (AWS) is a nonprofit organization with a global mission to advance the science, technology and application of welding and allied joining and cutting processes, including brazing, soldering and thermal spraying. AWS strives to move the industry forward in both thought and action, as well as inspire new generations to see the exciting career opportunities available today.

## **ANIMATED ENGINES**

<http://www.animatedengines.com/>

[Retrieved November 16, 2016]

Provides animations of IC engines, steams engines and stirling engines.

## **ASSOCIATION FOR IRON & STEEL**

<http://www.aist.org/news>

[Retrieved November 4, 2016]

The Association for Iron & Steel Technology (AIST) is a non-profit organization with 17,500 members from more than 70 countries. With 30 technology committees and 22 local members chapters, AIST represents an incomparable network of steel industry knowledge and expertise. Its mission is to advance the technical development, production, processing and application of iron and steel.

## **AMERICAN SOCIETY OF HEATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)**

<https://www.ashrae.org/home>

[Retrieved November 29, 2016]

ASHRAE is a global society advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry.

## **CFD ONLINE**

<https://www.cfd-online.com/>

[Retrieved November 11, 2016]

CFD Online is an online center for Computational Fluid Dynamics. Services include several discussion forums, a jobs database, a free CFD reference in the form of a CFD-Wiki, a news and announcement forum, a books guide, an events calendar, and a comprehensive annotated link section with pointers to CFD resources around the world. CFD Online's goal is to offer high-quality web services to the CFD community. The site is independent and it is financed mainly by banner-ads.

## **THE COMPLETE GUIDE TO CHAIN**

<http://chain-guide.com/>

[Retrieved November 11, 2016]

The Complete Guide to Chain provides a comprehensive reference for chains used in power transmission and conveyance applications. Everything from the basics of chain, through to specific industrial applications of its use are detailed.

## **DICTIONARY OF MECHANICAL ENGINEERING COMPANION WEBSITE**

<http://www.oxfordreference.com/page/mecheng>

[Retrieved November 11, 2016]

Provides list of recommended web links, arranged alphabetically by the relevant dictionary entries.

## **eFLUIDS**

<http://www.efluids.com/>

[Retrieved November 4, 2016]

This site provides free resources for fluid dynamics and fluid engineering.

## **iNET**

<http://www.einet.be/>

[Retrieved November 25, 2016]

This site provides listing of resources in mechanical engineering available on the WEB.

## **ENGINEERING CENTRAL**

<http://engcen.com/>

[Retrieved November 16, 2016]

Engineering Central features job ads for chemical, civil, electrical, industrial, and manufacturing and mechanical engineers. There is also a special job bank for entry level engineers and you can add your resume to their database for free.

## **507 MECAHNICAL MOVEMENTS**

<http://507movements.com/>

[Retrieved November 26, 2016]

This is an online edition of the classic technical reference *Five Hundred and Seven Mechanical Movements* by Henry T. Brown. This site contains the original illustrations and text from the 21st edition of the book, published in 1908. It also includes animated versions of the illustrations, and occasional notes by the webmaster.

## **GREATEST ENGINEERING ACHIEVEMENTS OF THE TWEN-TIETH CENTURY**

<http://www.greatachievements.org/>

[Retrieved November 4, 2016]

The greatest engineering achievements website celebrates a remarkable century of technological achievement. The website contains detailed historical information, timelines, and personal essays by key innovators of each twenty major engineering accomplishments of the 20<sup>th</sup> century. The content for the site is adapted from the 2003 book, *A Century of Innovation: Twenty Engineering Achievements that Transformed Our Lives*. The book was developed through a project initiated by the National Academy of Engineering.

## **iCRANK.COM**

[http://icrank.com/cgi-bin/pageman/pageout.cgi?path=/index\\_html.html](http://icrank.com/cgi-bin/pageman/pageout.cgi?path=/index_html.html)

[Retrieved November 29, 2016]

A portal of mechanical design engineering resources. iCrank has been designed to be the perfect starting page for a mechanical engineer. It has been assembled by Mechanical Engineers for Mechanical Engineers and will be continually enhanced as we find more great design web resources and write more design apps for you to use.

## **THE INTERNATIONAL ASSOCIATION FOR THE PROPERTIES OF WATER AND STEAM**

<http://www.iapws.org/>

[Retrieved November 11, 2016]

IAPWS is an international non-profit association of national organizations concerned with the properties of water and steam, particularly thermophysical properties, cycle chemistry guidelines, and other aspects of high-temperature steam, water and aqueous mixtures relevant to thermal power cycles and other industrial and scientific applications.

## **KUTRIEBRESEARCH**

<http://www.kutriebresearch.com/>

[Retrieved November 4, 2016]

Designers and manufacturers of gas turbine engines.

## **MAGNOMATICS**

<http://www.magnomatics.com/>

[Retrieved November 5, 2016]

Magnomatics is a high technology engineering company that is developing and manufacturing products for many global industries based on its proprietary ground breaking magnetic gear technology. Magnomatics have developed two derivative products based on magnetic gears, the Pseudo Direct Drive PDD® and MAGSPLIT®. The PDD is a very efficient high torque low speed motor/generator highly suited to rail traction, actuation, fan motors, marine propulsion and wind power. MAGSPLIT is a very efficient power-split dedicated hybrid transmission and is being evaluated by a number of vehicle manufacturers. MAGSPLIT is very simple having just two rotating elements and has the added benefit of filtering torsional vibrations. The company is active in many market sectors, including hybrid vehicles, renewables, marine propulsion, aerospace, rail, and oil & gas.

## **MATWEB :MATERIAL PROPERTY DATA**

<http://www.matweb.com/>

[Retrieved November 12, 2016]

MatWeb's searchable database of material properties includes data sheets of thermoplastic and thermoset polymers such as ABS, nylon, polycarbonate, polyester, polyethylene and polypropylene; metals such as aluminum, cobalt, copper, lead, magnesium, nickel, steel, super alloys, titanium and zinc alloys; ceramics; plus semiconductors, fibers, and other engineering materials.

## **MATHWORKS**

<http://www.mathworks.com/>

[Retrieved November 26, 2016]

Accelerating the pace of engineering and science. MathWorks is the leading developer of mathematical computing software for engineers and scientists.

## **MEMS AND NANOTECHNOLOGY CLEARINGHOUSE**

<http://www.memsnet.org/news/>

[Retrieved November 17, 2016]

An information resource for the MEMS (MicroElectro Mechanical Systems) and Nanotechnology development community hosted by the MEMS and Nanotechnology Exchange, the nation's leading provider of high-quality foundry and consulting services.

## **PHILIPPINE SOCIETY FOR NONDESTRUCTIVE TESTING**

<http://psnt-ndt.org/>

[Retrieved November 9, 2016]

The Philippine Society for Nondestructive Testing, Inc. (PSNT) is the only Organization composed of engineers, technologies, professionals and technicians engaged in and/or interested in the practice of Nondestructive Testing (NDT) techniques and methods.

## **PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS**

<http://psme.org.ph/>

[Retrieved November 8, 2016]

Official website of the Philippine Society of Mechanical Engineers (PSME). The Society endeavors to unite all practitioners for the exclusive purpose of advancing the arts and science of mechanical engineering, the allied arts and science and related human factors for the benefit of the general public. It also provides a venue for its members to participate and contribute in the social, economic and industrial growth of the country.

## **POWER ENGINEERING**

<http://www.power-eng.com/gas.html>

[Retrieved November 11, 2016]

Power Engineering Online provides up-to-the-minute energy news, stock quotes, five years of searchable editorial archives, power generation conference schedule and details, and an industry product and services guide.

## **ROBOTICS ONLINE**

<http://www.robotics.org/>

[Retrieved November 18, 2016]

“Your #1 resources for industrial robotics.” Robotics Online is sponsored by Robotic Industries Association, and provides information to help engineers, managers and executives apply and justify robotics and flexible automation. The site includes a Buyer's Guide with a search engine function, plus industry insights, daily news updates, case studies, technical papers, event calendar, job openings, an "Ask the Experts" forum, and much more.

## **SAMS FABRICATION**

<http://www.samsfabrications.co.uk/>

[Retrieved November 10, 2016]

SAMS Fabrications was established to build up a reputation for reliability, quality and competitiveness within the sheet metal fabrications industry. It aims to develop long term relationships with each and every one of our customers by delivering quality workmanship, on time and at a competitive cost.

## **SOCIETY OF AUTOMOTIVE ENGINEERING**

<https://saemobilus.sae.org/>

[Retrieved November 16, 2016]

SAE International is a global association of more *than 128,000 engineers and related* technical experts in the aerospace, automotive and commercial-vehicle industries. SAE International's core competencies are life-long learning and voluntary consensus standards development. SAE International's charitable arm is the SAE Foundation, which supports many programs, including A World In Motion® and the Collegiate Design Series.

## **TCR ENGINEERING SERVICES**

<http://www.tcreng.com/>

[Retrieved November 15, 2016]

TCR Engineering Services undertakes material testing as per international standards and specifications as defined by ASTM, NACE, BIS, JS, GR, IS and others. Testing can also be done as per client-supplied specification.

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## **TECHXTRA**

<http://www.techxtra.ac.uk/>

[Retrieved November 18, 2016]

TechXtra is a free service which can help you find articles, books, the best websites, the latest industry news, job announcements, technical reports, technical data, full text eprints, the latest research, thesis and dissertations, teaching and learning resources in engineering, mathematics and computing.

## **THE THERMAL CONNECTION**

<http://www.tak2000.com/>

[Retrieved November 20, 2016]

Maintained by K&K Associates. This is a collection of links to sites with information in the area of thermal engineering, like material properties, calculators, heat transfer, and thermal conversions.

## **THOMASNET**

<http://www.thomasnet.com/>

[Retrieved November 29, 2016]

“Search ThomasNet to find manufacturers, distributors and service providers - from Actuators to Zirconium and everything in between.”



## **TOLERANCES AND FITS**

<http://www.mitcalc.com/doc/tolerances/help/en/tolerancestxt.htm>

[Retrieved November 12, 2016]

Selection of suitable fits of machine parts according to the international standard ISO 286, ANSI B4.1 and ISO 2768.

## **WELDING DESIGN AND FABRICATION**

<http://weldingweb.com/>

[Retrieved November 18, 2016]

Welcome to WeldingWeb.com, the ultimate source for welding information & knowledge sharing! Here you can join over 40,000 Welding Professionals & enthusiasts from around the world discussing all things related to welding. To gain full access to our community you must register; for a free account.

## **ELECTRONIC RESOURCES**

### **GALE VIRTUAL REFERENCE LIBRARY**

<http://go.galegroup.com/ps/start.do?p=GVRL&u=adamson>

Provides various titles of e-books of various subjects. Gale Virtual Reference Library (GVRL) is limited to students, faculty, and administrators of Adamson University.

### **KNOVEL**

<https://app.knovel.com/web/>

Knovel is a web-based application that integrates trusted technical information with optimized search for engineers and interactive data analysis tools. Adamson University Library subscribes to thirteen (13) technical references consisting of Three Thousand Two Hundred Thirty Eight (3,238) book titles.

### **SCIENCE DIRECT**

<http://www.sciencedirect.com/>

A leading full-text scientific database offering science, medical and technical (STM) journal articles and book chapters from more than 2,500 peer-reviewed journals and over 30,000 books. There are currently more than 11 million articles/chapters, a content base that is growing at a rate of almost 0.5 million additions per year with archives that reach as far back as 1823.