



**Effective Solutions
for Accessing Electronic Resources – Based on
Experiences of Warsaw University of Technology
Main Library**

INFORUM - May 2007, Prague



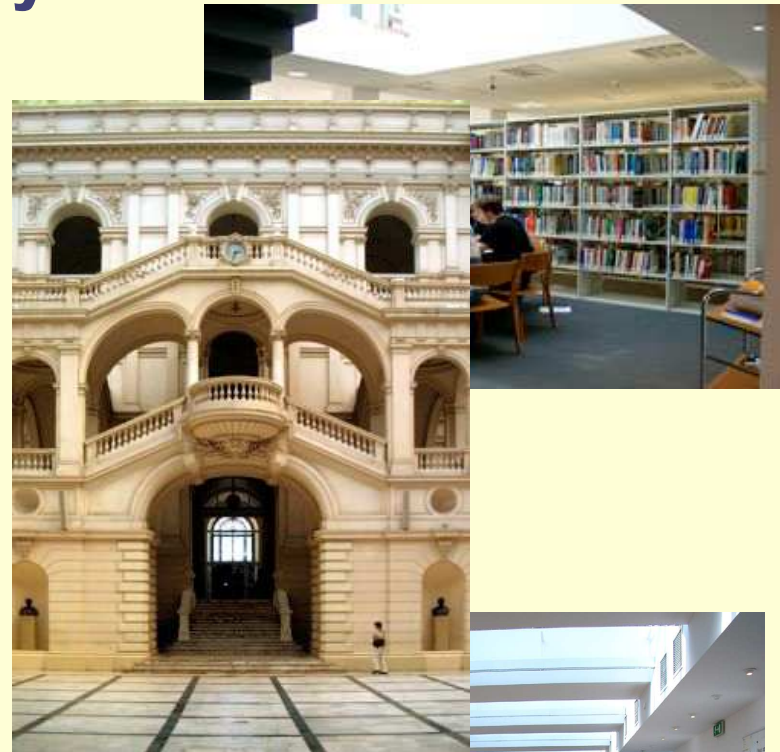


Warsaw University of Technology (WUT)

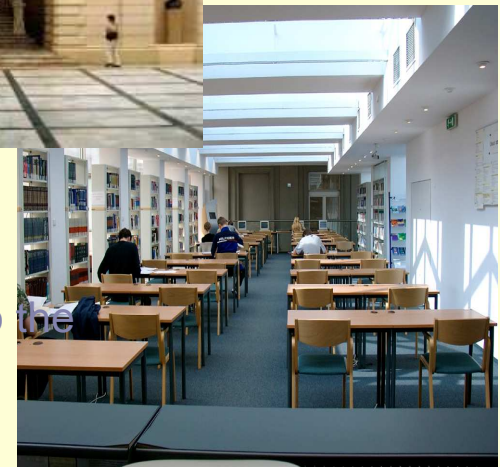
- the origins of Politechnika Warszawska – Warsaw University of Technology date back to 1826
 - the largest technical university in Poland, ranked as the best engineering university
 - 30, 000 students, over 2, 000 professors and lecturers
 - 17 faculties covering almost all fields of engineering and applied sciences
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WUT Main Library

- the oldest technical academic library in Poland
- the Library is integrated with all branch libraries, student hostels libraries, faculties and institutions libraries (WUT library network)
- the Library's staff of 87 includes professionals with M.A in librarianship and information science and technical experts with M.Sc in engineering



- the central site in the WUT Main Building
- the modern library construction has been added to the 19th century building






Main Library holdings

- books: 1, 500 000 volumes of printed books and access to over 2, 000 electronic books (CRC Press, Knovel, Referex Engineering)
- journals: 200, 000 volumes of printed journals, 270 titles of current printed journals (subscriptions) and access to about 12, 000 titles of electronic journals (ScienceDirect Elsevier, Springer/Kluwer, Wiley InterScience, IEEE/IEE Electronic Library, IoP, AIP/APS, RSC)
- special collections: 40, 000 volumes of Polish and European standards, the National Heritage Library Collection, CD ROM databases, access to bibliografic worldwide databases (Compendex, Chemical Abstracts, SCI-Ex, Scopus, CSA TRD, EbscoHost Web, CINDAS and other), multimedia
- the WUT Digital Library- 4 collections: History of Education, History of science and Technology, History of WUT, Texts and Handbooks






Practical aspects of the WUT Main Library management

- users' needs oriented
 - winning new users group, analysing their demands, promoting library activities
 - changing librarians' habits – "users guarantee library existing"
 - identifying negative effects of the library activities and eliminating errors and losses
 - applying new information technology in the library processes
 - using statistical and analytical tools to increase the quality of library services
- 



WUT Main Library resource management

- the Library automation (started in 1999) is still being introduced and now its resource management is based on the following systems:
 - Aleph integrated library system (printed resources)
 - HAN Hidden Automatic Navigator (on line commercial resources)
 - dLibra Digital Library Framework (digital collection)
 - all these systems support the Library acquisition, resource management and the increase of information services quality
 - all of them can be integrated with each other
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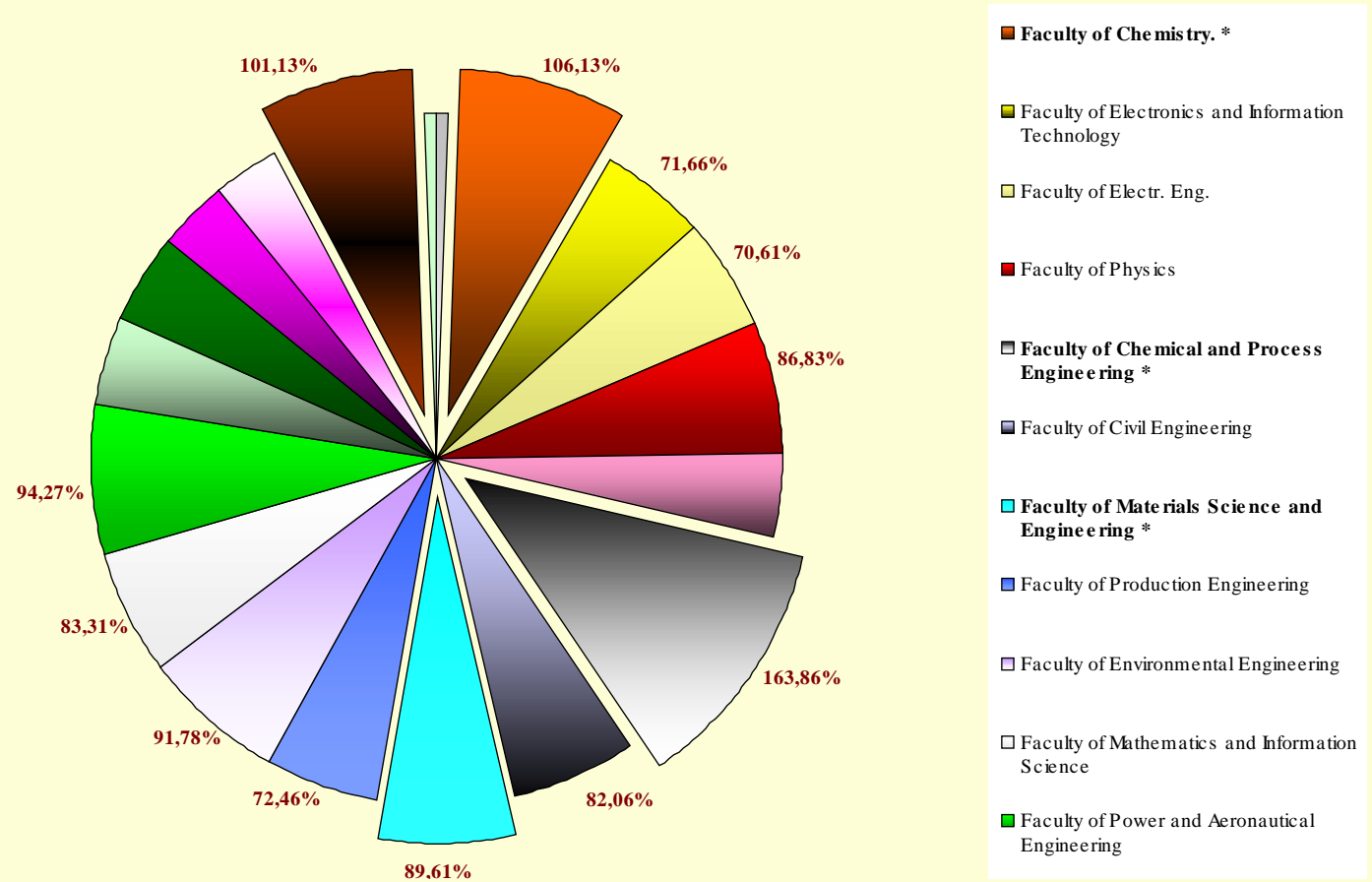


The Aleph system

- the Aleph can integrate and manage all of WUT printed resources
- makes current and periodical usage reports
- enables making combinations of users group, circulations, the most popular titles
- shows which time is the most popular after the Library opening hours
- shows that users need a 24-hour access to the Library (books orders via Internet are made between 9 p.m and midnight)
- enables making ranking of the most popular documents and performance indicators for the Library printed collections




The users activity of specific WUT faculties – the Aleph report in 2006







Hidden Automatic Navigator (HAN)

- manages and controls the access, supports integration of the applications and presents them on-and off- line
 - helps the users and supports librarians
 - enables entitled users' access to a legal use of commercial resources from any computer
 - users can log in with a library card without additional authorisation
- 




HAN gives options to conduct the following analyses:

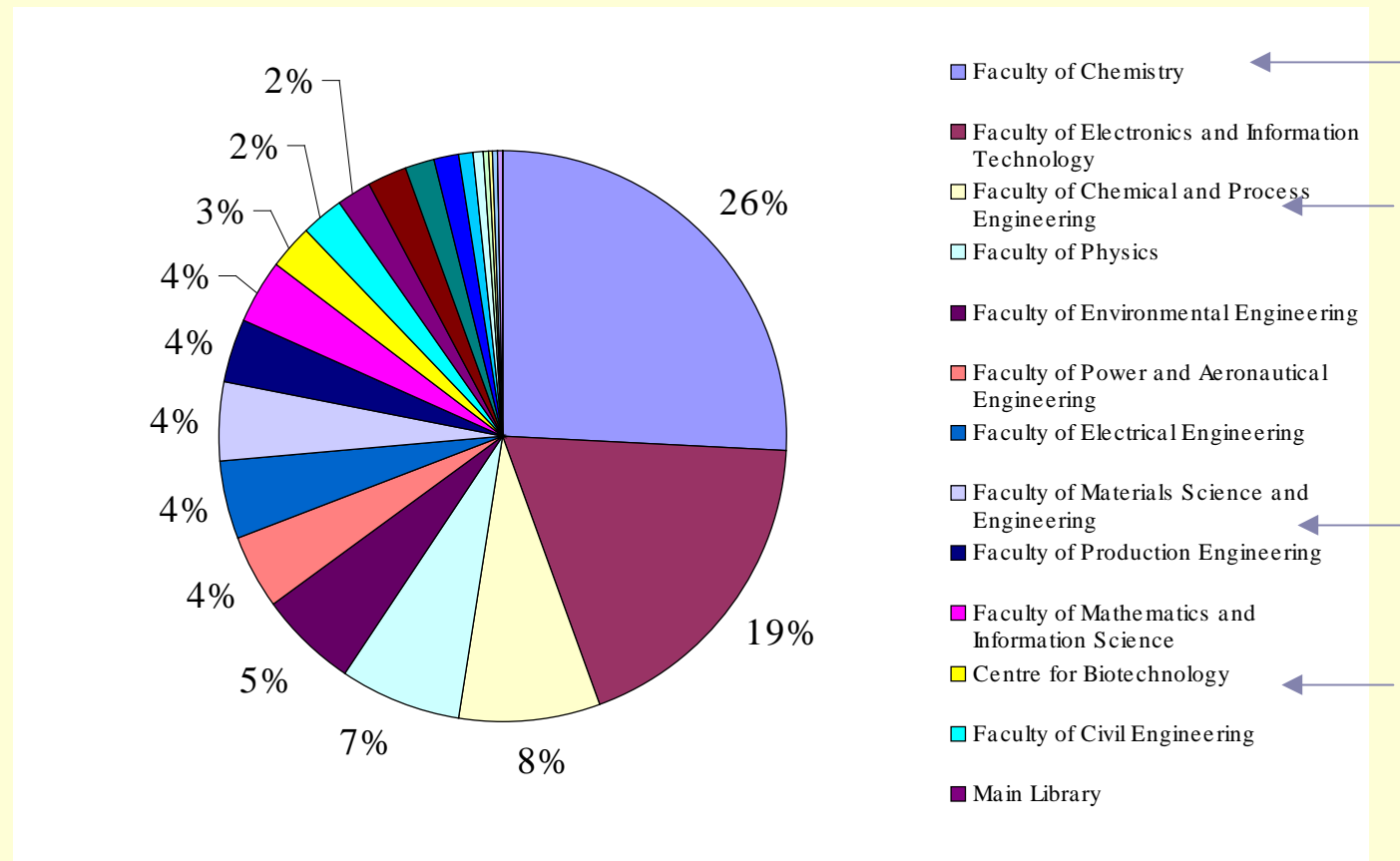
- the most popular time of using databases (not limited by the Library opening hours)
 - which database was used during a period of time
 - which databases were used the most by specific group of users
 - how long users navigated through a chosen database
- 



HAN generates data which guarantee a possibility of making statistical analyses depending on the Library needs

- the 2006 statistics report showed that INSPEC database was used the least
 - It showed that it was uselessness or it was purposeful to continue some licenses (sources which are used by small group of users but during long time and oft)
 - other analyses showed that the most active group of users were chemists, and it justifies chemical databases subscriptions
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The most active group of users (chemists)



the Aleph report also showed this group as the most active (see: slide no.8)

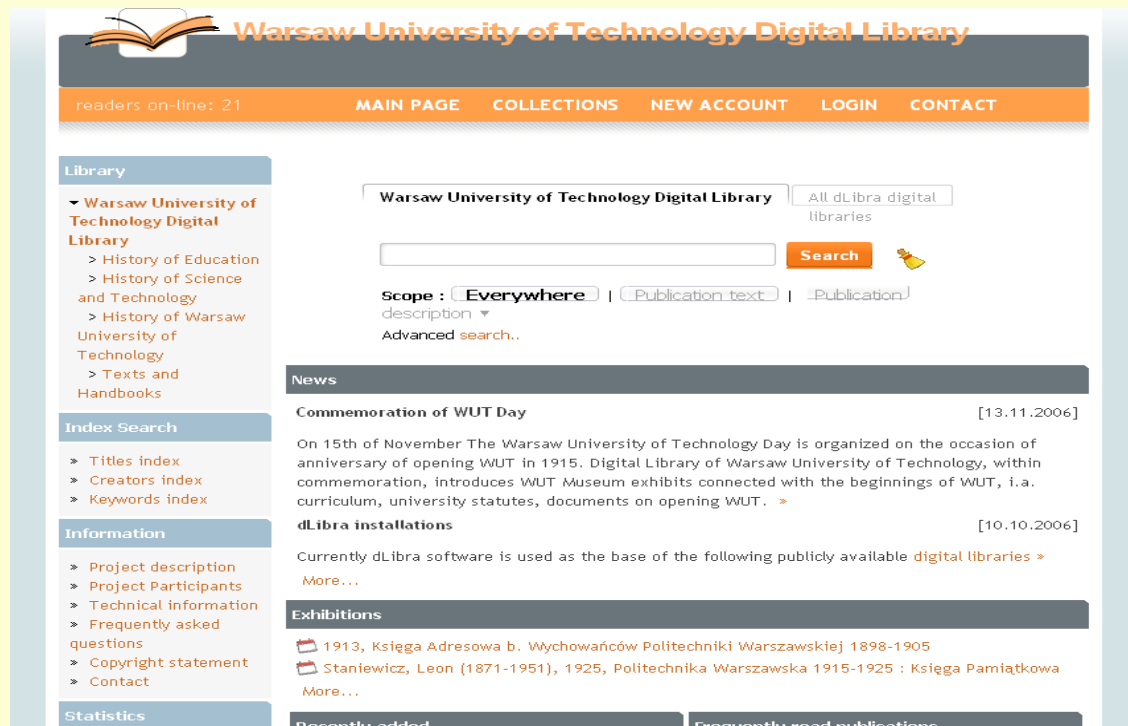


HAN allows the Library

- count simultaneous users (what license the Library should purchase)
 - improve the management of electronic resources
 - implement the license policy consciously
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The WUT Digital Library and Digital Library Framework (dLibra)

- dLibra – the first Polish software for building digital libraries (Poznań Supercomputing Centre 1999)
- enables libraries to create professional repositories of digital documents



The screenshot displays the website for the Warsaw University of Technology Digital Library. At the top, there is a navigation bar with links for 'MAIN PAGE', 'COLLECTIONS', 'NEW ACCOUNT', 'LOGIN', and 'CONTACT'. Below this, a search bar is prominently featured, with a dropdown menu showing 'Warsaw University of Technology Digital Library' and 'All dLibra digital libraries'. The search bar includes a 'Search' button and a 'Scope' dropdown set to 'Everywhere'. A sidebar on the left contains a 'Library' section with a tree view of the site's structure, including 'History of Education and Technology' and 'Texts and Handbooks'. Below the sidebar, there are sections for 'Index Search' (with links to 'Titles index', 'Creators index', and 'Keywords index'), 'Information' (with links to 'Project description', 'Project Participants', 'Technical information', 'Frequently asked questions', 'Copyright statement', and 'Contact'), and 'Statistics'. The main content area features a 'News' section with two entries: 'Commemoration of WUT Day' dated [13.11.2006] and 'dLibra installations' dated [10.10.2006]. The 'Exhibitions' section lists two items: '1913, Księga Adresowa b. Wychowawców Politechniki Warszawskiej 1898-1905' and 'Staniewicz, Leon (1871-1951), 1925, Politechnika Warszawska 1915-1925 : Księga Pamiątkowa'. At the bottom, there are sections for 'Recently added' and 'Frequently read publications'.



The WUT Digital Library (the WUT DL)

- the Collection of Local Electronic Holdings was launched in 2005
- in 2006 the WUT Main Library started implementing a new program dLibra and the collection has changed the name to the WUT Digital Library
- the WUT DL publications are grouped in four collections:
 - History of Science and Technology
 - History of Education
 - History of WUT
 - Texts and handbooks (published by WUT and other editors)



The WUT Digital Library

- the main tasks of the WUT DL is creating digital resources and providing open access to the educational sources and scientific output of the WUT,
- the structure and content of WUT DL can be based on the Aleph statistics reports to prove which printed books are the most popular, which other books do not have enough copies,

- these data help to create a list of publications planned for digitalisation in our DL (collection of texts and handbooks)



The screenshot displays the Warsaw University of Technology Digital Library website. The header includes the university logo and the title 'Warsaw University of Technology Digital Library'. Below the header, a navigation bar contains links for 'readers on-line: 21', 'MAIN PAGE', 'COLLECTIONS', 'NEW ACCOUNT', 'LOGIN', and 'CONTACT'. The main content area is divided into two columns. The left column, titled 'Collection', lists 'Collection description', 'Publications list', and 'Planned publications'. The right column, titled 'Planned publications', contains the text 'List below contains publications planned for digitalization in our digital library.' and a list of letters '0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z'. A blue arrow points from the 'Planned publications' link in the left column to the list of letters in the right column. At the bottom of the page, it states 'Page maintained by WUT Library' and 'This page is based on dlibra framework ver. 3.0.15'.

- WUT DL digital books are also described in the WUT catalogue as bibliographic records and it allows users to link information (about the same title) with each other



Search tools

- the WUT Main Library Web Site
 - interactive table of e- databases
 - A/Z list of e- journals
 - A/Z list of e – books
 - MyiLibrary Platform
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Interactive table of e-databases

- the table allows users to overview all e-resources available through WUT Main Library
- users can choose some database directly, selecting a branch of science or a type of database
- the table provides access to all of them in the same place

BGPW: Bazy - Microsoft Internet Explorer

PIK: Edycja Widok Ulubione Narzędzia Pomoc

Wyszukaj Ulubione

Adres: http://www.bg.pw.edu.pl/istabaz_e.html

authorized users
free - bazy ogólnodostępne / free databases
OIN - Ośrodek Informacji Naukowej / Reference Center

A wide range of electronic resources is available both to students and staff of the WUT. This page includes links to electronic journals, books, databases, newspapers and CD-ROMs. Some of them are accessible from the University workstations only. To use the databases contact the [Reference Centre](#) - E-mail: oin@bg.pw.edu.pl

PAMIĘTAJ / REMEMBER:
Tabele można sortować naciskając tytuł kolumny (IE6, Netscape ?)
You can sort the table by title, branch of science or access.

Bazy zawierające **KSIĄŻKI** zostały w tabeli wyróżnione / E-book Databases in the table are distinguished

Tytuł / Title	Dziedzina	Branch of science	Tryb dostępu / Access	Typ bazy
ACS (American Chemical Society) Publications - [INFO]	chemia	chemistry	PW	pełnotekstowa
ASCE Journals (American Society of Civil Engineers Journals) - [INFO]	inżynieria lądowa, inżynieria środowiska, architektura	civil engineering, environmental engineering, architecture	free	bibliograficzno-abstraktowa
Alfabetyczny katalog kartkowy BGPW - [INFO]	interdyscyplinarna	interdisciplinary	free	katalog
Analytical WebBase - Analytical Abstracts - [INFO]	chemia analityczna	analytical chemistry	PW	bibliograficzno-abstraktowa
BAZTECH - Baza danych o zawartości polskich czasopism technicznych - [INFO]	technika	technics	free	bibliograficzno-abstraktowa
BIBLIO - Bibliografia prac pracowników PW (ALEPH) - [INFO]	technika	technics	free	bibliograficzna
CINDAS - [INFO]	materiałoznawstwo	materials science	PW	bibliograficzna
CRC Press: ENgnetBASE (Engineering Handbooks Online) - [INFO]	technika, inżynieria środowiska	technics, environmental engineering	PW	pełnotekstowa - KSIĄŻKI
CSA Technology Research Database - [INFO]	interdyscyplinarna	interdisciplinary	PW	bibliograficzno-abstraktowa
Chemical Abstracts - [INFO]	chemia	chemistry	PW	bibliograficzno-abstraktowa
Compendex Engineering Village - [INFO]	technika	technics	PW	bibliograficzno-abstraktowa
DOAJ (Directory of Open Access Journals) -				

Updating row 50 of 50 (Time spent: 281ms)

Internet

The Main Library A/Z list of e-journals

- the list enables users locate and link to titles they are interested in fast
- this list includes 12 000 titles of e-journals
- the register is updated as often as it is necessary
- the list is integrated with the WUT catalogue and users can link to the same title in printed version if the e-journal has its counterpart

Tytuł	ISSN	Baza	Wydawca	Zasięg	PW
(London) - Chemical Design Automation News.	0886 - 6716	Elsevier / ScienceDirectICM		January 2, 1995 - September 10, 1996	
Chemical Engineering and Processing.	0255 - 2701	Elsevier / ScienceDirectICM	Elsevier.	February, 1995 - - Current	
Chemical Engineering and Technology - CET.	1521 - 4125	Wiley / Wiley Interscience	John Wiley & Sons.	1998-2005	
Chemical Engineering Communications.	0098 - 6445	Ebsco / Academic Search Premier	Taylor & Francis.	Jan 2002 -	
The Chemical Engineering Journal and The Biochemical Engineering Journal.	0923 - 0467	Elsevier / ScienceDirectICM	Elsevier.	December, 1994 - January 15, 1997	
Chemical Engineering Journal.	1385 - 8947	Elsevier / ScienceDirectICM	Elsevier.	January 15, 1997 - - Current	
Chemical Engineering Progress.	0360 - 7275	Proquest / ABIInform Trade		01/01/1997 - Current	

The Main Library A/Z list of e-books

- the list is a navigational tool for researchers who want to get a specific title of e-book (among E-books databases) in a quick way.
- the majority of these books is available as packages in several databases such as: CRC Press, Referex Engineering, Knovel
- the list covers over 2 000 titles, giving access through the title to each URL address.
- the list is now unique in Poland.

Książki elektroniczne PW - Microsoft Internet Explorer

Plk: Edycja Widok Ułubione Narzędzia Pomoc

Wstecz Wyszukaj Ułubione

Adres: http://www.bg.pw.edu.pl/ekszaki/ksiazki-A.html

Lista książek elektronicznych PW [2007]

A

A B C D E F G H I J K L M N
O P Q R S T U V W XYZ 1-9 Info

Tytuł	Autor/zy	ISBN	Wydawca	Baza	Kolekcja	PW
Advanced Dynamics	Greenwood, Donald T.	0521826128	Cambridge University Press	MyLibrary		
Advanced Engineering Dynamics	Harrison, H.R.; Nettleton, T.	0-340-64571-7	Elsevier	Knovel-Library	Mechanics & Mechanical Engineering,	
Advanced Gas Turbine Cycles	Horlock, Sir John	0080442730		Referex Engineering	Materials & Mechanical	
Advanced Image Processing in Magnetic Resonance Imaging	Luigi Landini	0824725425		CRC Press: ENgnetBASE	ElectricalEngineeringnetBASE	
Advanced Mathematics and Mechanics Applications Using MATLAB Third Edition	Howard Wilson	158488262X		CRC Press: ENgnetBASE	MechanicalEngineeringnetBASE	
Advanced Polymer Processing Operations	Cheremisinoff, N.P.	0-8155-1426-3	William Andrew Publishing/Noyes	Knovel-Library	Plastics & Rubber,	
Advanced Radar Techniques and Systems	Galati, Gaspare	0-86341-172-X	Institution of Engineering and Technology	Knovel-Library	Aerospace & Radar Technology,	
Advanced Reservoir Engineering	Ahmed, Tarek; McKinney, Paul D.	0-7506-7733-3	Elsevier	Knovel-Library	Oil & Gas Engineering,	
Advanced Signal Processing Handbook: Theory and Implementation for Radar Sonar and Medical Imaging Real Time Systems	Stergio Stergiopoulos	0849336910		CRC Press: ENgnetBASE	ElectricalEngineeringnetBASE	
Advanced Thermodynamics Engineering	Kalyan Annamalai	0849325536		CRC Press: ENgnetBASE	MechanicalEngineeringnetBASE	
Advanced Thermodynamics for Engineers	Winterbone, Desmond E.	0-340-67699-X	Elsevier	Knovel-Library	Chemistry & Chemical Engineering, General Engineering & Engineering Management	
Advanced Vehicle Technology	Heisler, Heinz	0750651318		Referex Engineering	Materials & Mechanical	
Advances in Chemical Propulsion: Science to Technology	Gabriel D. Roy	0849311713		CRC Press: ENgnetBASE	MechanicalEngineeringnetBASE	
Advances in the Bonded Composite Repair of Metallic Aircraft Structure, Volume 1	Baker, AA;Rose, LRF;Jones, R	0080426999a		Referex Engineering	Materials & Mechanical	
Advances in the Bonded Composite Repair of Metallic Aircraft Structure, Volume 2	Baker, AA;Rose, LRF;Jones, R	0080426999b		Referex Engineering	Materials & Mechanical	
Aerodynamics for Engineering Students	Houghton, E. L.;Carpenter, P.W.	0750651113		Referex Engineering	Materials & Mechanical	
Aeronautical Engineer's Data Book	Matthews, Cliff	0750651253		Referex Engineering	Materials & Mechanical	
Aerosol Handbook (2nd Edition)	Johnsen, Montfort A.	0960-3250-34	Industry Publications, Inc.	Knovel-Library	Chemistry & Chemical Engineering,	
Aerosol Measurement - Principles, Techniques, and Applications (2nd Edition)	Baron, Paul A.; Willeke, Klaus	0-471-38636-0	John Wiley & Sons	Knovel-Library	Chemistry & Chemical Engineering, Environment & Environmental Engineering,	
Aspects of Rubber - Accelerated Heat Action	Brown, D. B.; Butler, T.; Maulay					

Internet

- the titles which are the Library property have link to the WUT catalogue

The MyiLibrary Platform

- this platform is a new solution which enables creating the Library's own collection of e-books which can be register in the WUT catalogue
- users can order single titles of e-books which are published by different editors
- users can look through a list of titles and then they can order chosen titles in the WUT Main Library Acquisition Department
- the chosen titles can be added to the MyiLibrary platform as the Library property

The screenshot displays the MyiLibrary web application interface. At the top, there is a search bar with a 'quick search all my content' button and a 'Full Text' dropdown. Below the search bar, the 'my results' section shows 'Search for: Displaying All Books' and 'Results 1 - 10 of 15 in 0.226 seconds'. Three book titles are listed with their covers and brief descriptions:

- Advanced Dynamics** by Greenwood, Donald T. (Published by Cambridge University Press in 2003)
- Air Quality Assessment and Management: A Practical Guide** by Hanna, Owen (Published by Taylor & Francis in 2001)
- Air Quality, 4th Edition** by Gupta (Published by Taylor & Francis in 2001)

Below the list, there is a table of titles with columns for 'Tytuł', 'Autor', 'Wydawnictwo', and 'Rok wydania'. The table lists various titles such as 'Advanced Dynamics', 'Air Quality Assessment and Management: A Practical Guide', 'Applied Atmospheric Dynamics', etc.

Tytuł	Autor	Wydawnictwo	Rok wydania
Advanced Dynamics	Greenwood, Donald T.	Cambridge University Press	2003
Air Quality Assessment and Management: A Practical Guide	Hanna, Owen	Taylor & Francis	2001
Air Quality	Dehish, Thad	Taylor & Francis	2003
Applied Atmospheric Dynamics	Lynch, Amanda; Carrano, John	Wiley	2004
Composite Materials: Design and Applications	Tsai, Stephen W.; Bay, Daniel; Moa, Suang Van	CRC Press	2003
Finite Volume Methods for Hyperbolic Problems	Lefkova, Randall J.	Cambridge University Press	2002
Fundamentals of Computer Organization and Design	Davidand, Sivarama	Springer	2002
Handbook of Modern Sensors: Physics, Design and Applications, Third Edition	Fraden, Jacob	Springer	2004
Medical Image Analysis Methods: The Electrical Engineering and Applied Signal Processing Series	Couvaras, Lena	CRC Press	2008
Numerial Optimization	More, J.J.; Wright, S.J.	Springer	1999
Principles of Electrical Measurement: Sensors Series	Tumanski, Slavomir	CRC Press	2006
Restored Concrete: Design Theory and Examples, Third Edition	Machinski, Chao; Elawi	Taylor & Francis	2005
Reliability, Maintainability and Risk: Practical Methods for Engineers Including Reliability Centred Maintenance and Safety-Related Systems	Smith, David J.	Elsevier Science & Technology	2005
Sensing of Atmosphere and Ocean from Space: Models, Instruments and Applications	Marsano, Frank S.J.; Vassoni, Guido	Springer	2002

At the bottom of the page, there is a section titled 'Czym jest MyiLibrary?' and 'MyiLibrary zawiera publikacje najlepszych wydawców tytułów naukowych, technicznych i medycznych, takich jak Wiley, Taylor and Francis, Springer, Elsevier i Oxford University Press. Dodatkowo można tam znaleźć wiele innych publikacji z poszczególnych dziedzin, takich jak: OECD, International Labour Organisation, World Health Organisation czy World Bank.'




The Main Library and the WUT cooperation

- participating in the meetings of the Senate Commissions, discussing research, didactic and financial systems
 - common holdings acquisition policy – accepted by research staff and librarians – members of Library Advisory Board (quarterly committee meetings)
 - cooperation with the University Student Parliament - promotion of the Library on student' portal (Polibuda.info), extension of opening hours, list of publications which should to be in the WUT DL as a digital copies, employment of students in the student hostel library, etc.
 - supporting the International Student Office activities by providing packages of printed and electronic books for foreign students, and promoting information services and specific/target training
 - the option "Purchase Request Form" on the Library Web Site enables students and researchers recommend materials for purchase
 - this cooperation corresponds to expectations of the university scientific environment, supports e-teaching and e-learning
- 




Training for users and researchers

- the programme of training courses includes:
 - general training – on how to use the Main Library
 - training on finding scientific information and using e-databases, A/Z list of e-journals, A/Z list of e-books, searching Web sites (for master's degree students, PhD students, researchers)
 - training for specific WUT courses (environmental engineering, chemistry, materials science, etc.)
 - training on using information sources on individual request
- 



Conclusions

- to develop access to e-resources libraries should solve the following problems:
 - limited budget,
 - applying management of e-resources,
 - focusing on users' needs,
 - cooperation with each other to create joint consortia and repositories and to design joint portals
 - since 1998, 22 Polish technical university libraries and special libraries have been designed and developed joint subject bibliographic database BazTech – Polish Technical Journal Content;
 - <http://baztech.icm.edu.pl/>
 - now, the same group of libraries have taken up a new project of a joint portal for engineers BazTol. The idea of BazTol is the Polish subject gateway (technical sciences)
 - academic libraries in Poland should aspire to establish a national repository (using dLibra as a joint software) which could develop an access to e-resources on a wider scale
 - joint library portals and multi searching could provide users with new possibilities to access local, domestic and international sources
 - this is the only way to achieve a success
- 



Thank you for attention

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