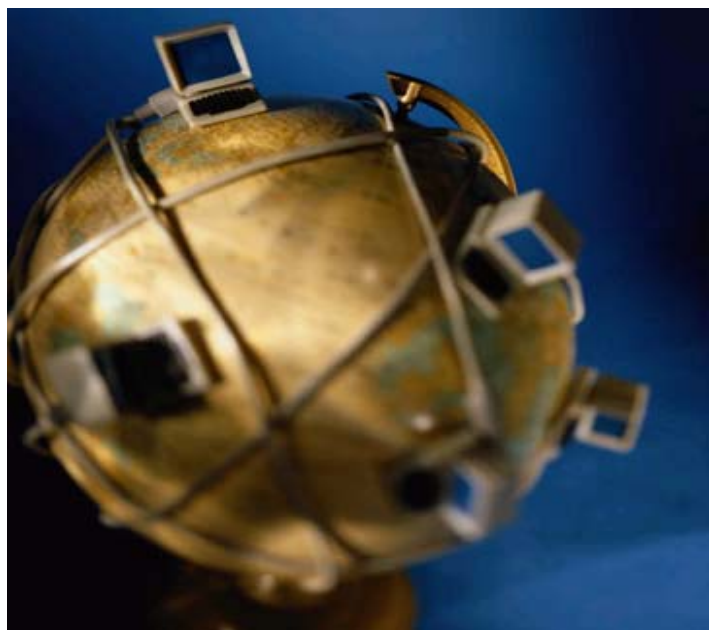


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吴嫣乐 Pilot WU

营业主任 IHS北京代表处

陳寶玲 Pauline CHAN

产品经理 – IHS 亚太区

IEEE, BSI Product Manager
Engineering, IHS APAC

四川成都 2007年5月18日



内容安排

1. IHS公司简介

2. IEEE/IET IEL数据库

3. ESDU 工程技术数据库



IHS公司简介

公司背景

- 超过**45**年的专业经验
- 信息来源于**730**余家标准研制机构
- 全球**3,500**余名员工
- 全球销售收入**6**亿美元
- 在**60**个国家建立了分支机构
- 总部位于美国丹佛

技术实力

- **7x24**小时冗余主机中心
- **70%** 的客户采用互联网访问方式
- 超过**2000**万电子技术信息页
- 每天处理**25**万幅文献全文图片
- 每年投入**500**万美元的研发费用

产品服务

- 拥有遍布在**95**个国家，**5,500**家公司客户，**60,000**家最终用户
- **250**家全球排名前**1000**家的大公司是IHS的客户
- 全球财富**100**强的公司里有**80%**是IHS的客户
- **90%**的国防部部门采用IHS公司的产品
- **90%**全球领先的技术大学和科研机构



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IHS Products and Services

- International/ Industry Standards: ISO, IEC, ASTM, BSI, ANSI, GOST, IEEE, EIA,...
- Research Databases (IEL, SAEDL)
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- Parts & Logistics Systems (Haystack)
- Electronic Components Database (i2)
- Parts & Equipment Catalogs (CatalogXpress)
- Validated Engineering Design Data (ESDU)
- Aviation Information System (AV-DATA)
-



一个最完整最具参考价值资料库

IEEE为美国电子电机工程师学会
(Institute of Electrical and Electronic Engineers)

IET为英国电机工程师学会*
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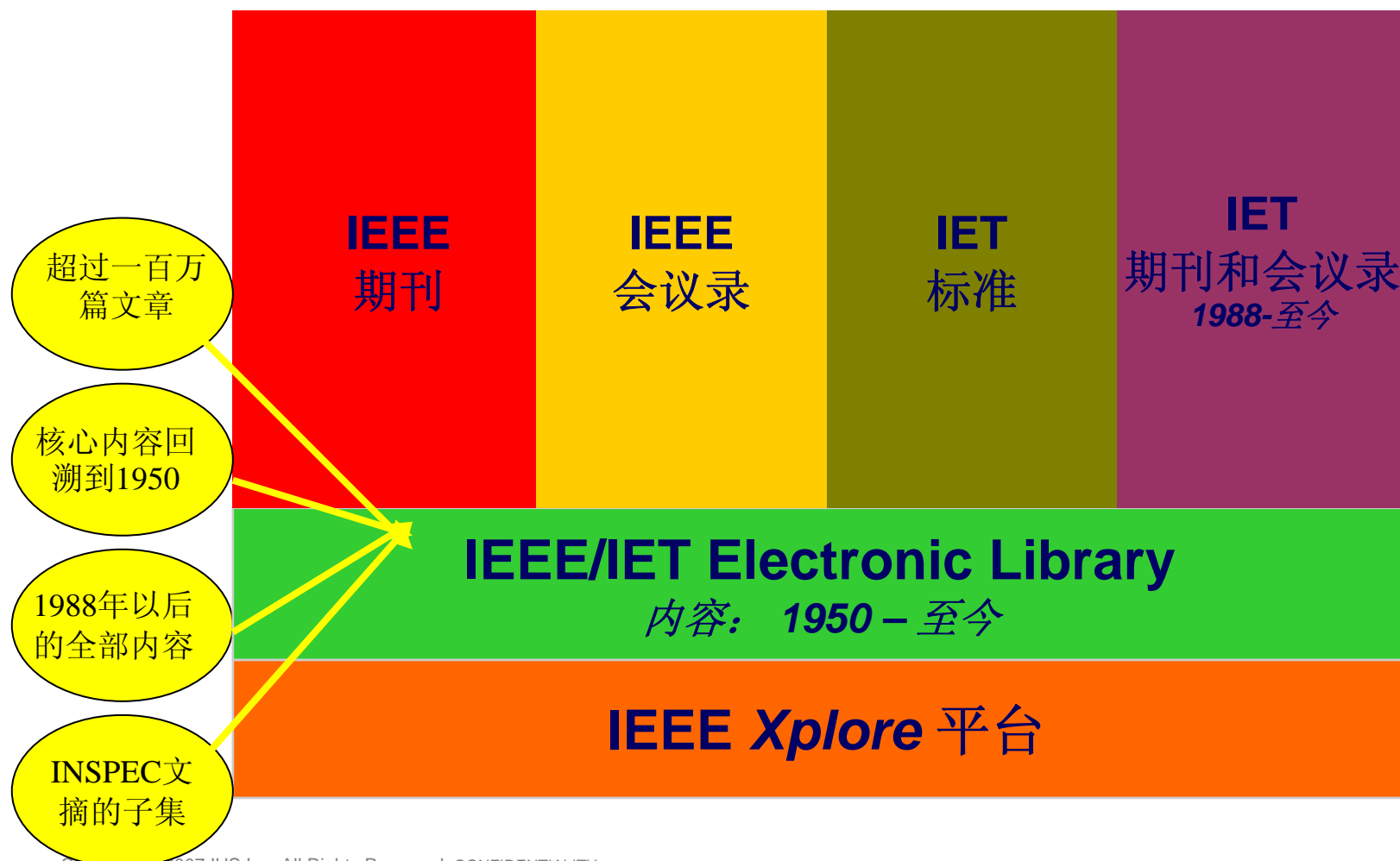
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- IEEE Transactions on Biomedical Circuits and Systems
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- IEEE Nanotechnology Magazine
- IEEE Industrial Electronics Magazine
- IEEE Transactions on Network and Service Management

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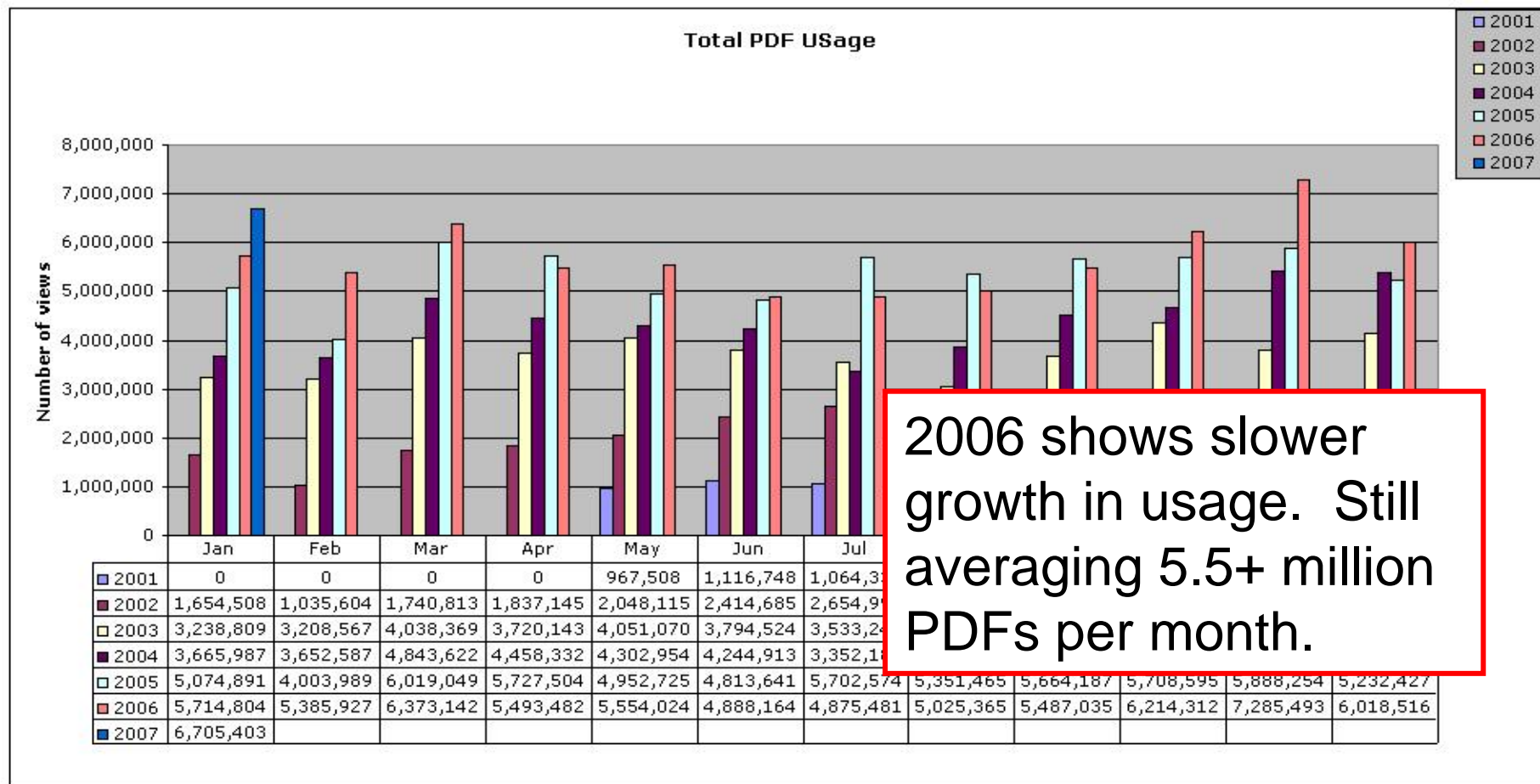




2006-07年 IEL 在中国的大学用户

1. 2006-07年IEL 的销售模式的引进了TIER 方案
2. 分为两个TIER： TIER1 (20 simos)和 TIER2 (10 simos)
3. 2006-07年CALIS组团， TIER1用户为46家， TIER2 为15家
4. 福州大学和河海大学分别在4月份和5月份加入

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- 这些遗增内容都会包含在IEL数据库中
- IEEE 期刊
 - 80, 000 份论文被添加
 - 目前26, 500 份已经存在
 - 剩下的53, 500 份将会在2007底完成
- IEEE 会议录
 - Phase 1 back to 1963 – Complete
 - Phase 2 1913 – 1951 – Complete
 - Phase 3 1951 – 1963 – Target 2007



IEEE Xplore 平台的升级还在进一步进行中

- 为更好的服务用户，**IEEE**请外界的公司对新的平台进行评估
- 在**Arizona** 建立了一个备份站点做为**Piscataway, NJ**的备份
- 投入更多的技术人员改善管理过程
- 更新防火墙工具和网络结构
- 对一些细小结构的调整



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 - 检索结果的改进



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Rao, K.V.S.; Nikitin, P.V.; Lam, S.F.
Antennas and Propagation, IEEE Transactions on
Volume 53, Issue 12, Date: Dec. 2005, Pages: 3870- 3876
Digital Object Identifier 10.1109/TAP.2005.859919
[Abstract](#) | Full Text: [PDF](#) (808 KB)
- Novel small-size directional antenna for UWB WBAN/WPAN applications**
Klemm, M.; Kovcs, I.Z.; Pedersen, G.F.; Troster, G.
Antennas and Propagation, IEEE Transactions on
Volume 53, Issue 12, Date: Dec. 2005, Pages: 3884- 3896
Digital Object Identifier 10.1109/TAP.2005.859906
[Abstract](#) | Full Text: [PDF](#) (2064 KB)
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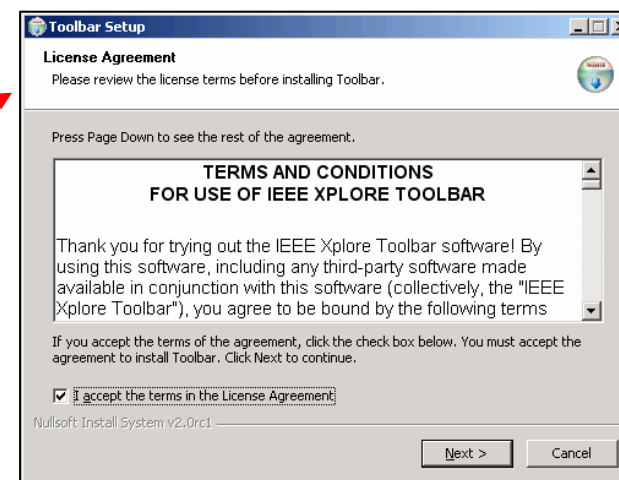
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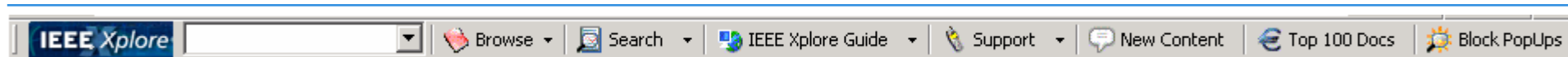
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- 需要安装插件程序





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Coming Soon!



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- 可以直接进行 targeted search
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IEEE JIIL IEEE Journal or Magazine
IEEE CHF IEEE Conference Proceeding
IEEE CHF IEEE Conference Proceeding
IEEE STD IEEE Standard

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1. Java, Java, Java
Sabharwal, C.L.;
[Potentials, IEEE](#)
Volume 17, Issue 3, Aug-Sep 1998 Page(s):33 - 37
Digital Object Identifier 10.1109/45.714612
[AbstractPlus](#) | Full Text: [PDF\(1896 KB\)](#) IEEE JIIL
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2. Java Business Integration
Vinoski, S.;

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IET JIIL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

- 1. A Binary Tree for Probability Learning in Eye Detection**
Junwen Wu; Trivedi, M.M.;
[Computer Vision and Pattern Recognition, 2005 IEEE Computer Society Conference on](#)
Volume 3, 20-26 June 2005 Page(s):170 - 170
Digital Object Identifier 10.1109/CVPR.2005.562
[AbstractPlus](#) | Full Text: [PDF](#)(520 KB) IEEE CNF
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- 2. Book Reviews**
[Systems Science and Cybernetics, IEEE Transactions on](#)
Volume 5, [Issue: 2](#) April 1969 Page(s):170 - 171
Digital Object Identifier 10.1109/TSSC.1969.300212
[AbstractPlus](#) | Full Text: [PDF](#)(1131 KB) IEEE JIIL
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- 3. New Color Picture Tube System for Portable TV Receivers**
Barbin, R.L.; Hughes, R.H.;
[Broadcast and Television Receivers, IEEE Transactions on](#)
Volume BTR-18, [Issue: 3](#) Aug. 1972 Page(s):193 - 200
Digital Object Identifier 10.1109/TBTR1.1972.299669
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- 4. 25-V Inch 114-Degree Trinitron Color Picture Tube and Associated New Developments**
Yoshida, S.; Ohkoshi, A.; Miyakawa, S.;
[Broadcast and Television Receivers, IEEE Transactions on](#)
Volume BTR-20, [Issue: 3](#) Aug. 1974 Page(s):193 - 200
Digital Object Identifier 10.1109/TBTR1.1974.299845
[AbstractPlus](#) | Full Text: [PDF](#)(4050 KB) IEEE JIIL
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Programming languages and database tools software are development suites to provide the commands, grammar and syntax for instructing digital devices (computers) to perform specific tasks.
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Server and operating system software includes platforms for operating, managing, and monitoring industrial networks and computers.
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Software development services design custom software for a variety of applications.

DataCompression.info - Tutorials, Reference, Presentations

This article gives a good look at how to use the java.util.zip classes that showed up in JDK 1.1. Todd Sunsted includes java source that shows you how to easily compress files using standard library ...
<http://www.datacompression.info/Tutorials.shtml> - (cached)

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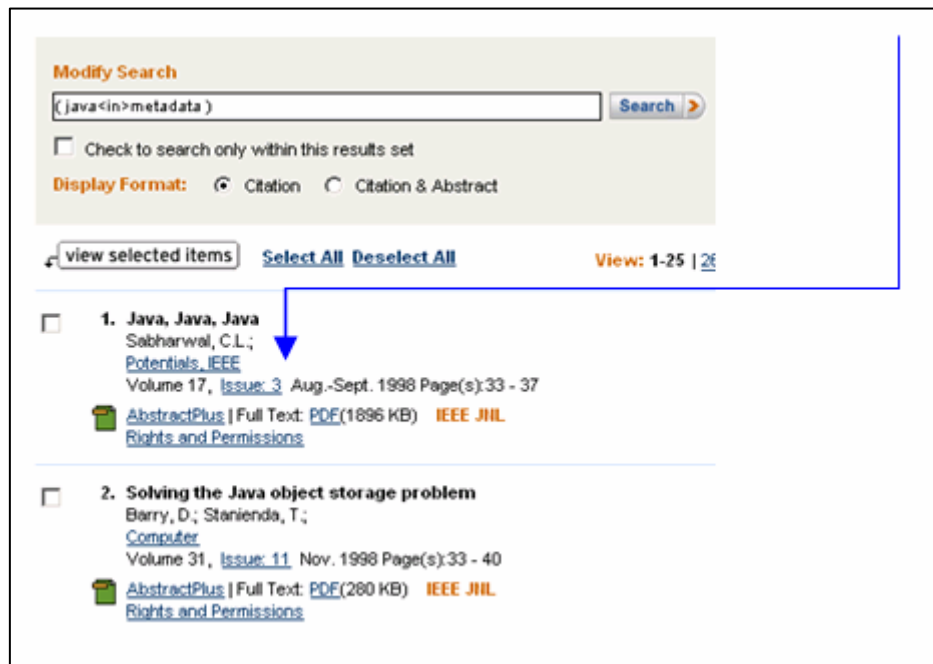
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The screenshot shows the IEEE Xplore website interface. At the top, there's a navigation bar with links like Home, Login, Logout, Access Information, Alerts, Sitemap, and Help. Below this, a 'Welcome Research Account' banner is visible. The main content area is titled 'CAD Algorithms, Methods and Tools For Low-Power Circuits and Systems' and is edited by Enrico Macii. The page is divided into several sections: 'Technology Surveys' (with a 'BROWSE' button), 'Survey Sections' (listing five sections from Power Estimation to Software Design), 'Abstract' (providing a detailed overview of low-power consumption challenges), 'Fundamental and Additional References' (with a 'View all references' link), and 'Contributors' (listing Wolfgang Hebel and Marios Papaefthymiou). The IEEE Xplore logo and 'RELEASE 2.1' are also present in the header area.

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The screenshot shows the IEEE Xplore interface for the article "Time-Optimal Control of a Particle in a Dielectrophoretic System". A red circle highlights the "Download this citation" section, which includes a "Choose" dropdown menu set to "Citation & Abstract" and a "Download" dropdown menu with options: "ASCII Text", "EndNote, ProCite, RefMan", "RefWorks", "BibTex", and "ASCII Text". The "BibTex" option is highlighted. The article details include authors (Chang, D.E., Petit, N., Rouchon, P.), publication date (July 2006), volume (5), issue (7), and ISSN (0018-9286). The abstract text is also visible.

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95-2002	Active - IEEE recommended practice for insulation testing of AC electric machinery (2300 V and above) with high direct voltage Revision of 95-1977	
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95-1977	Archived - IEEE Recommended Practice For Insulation Testing Of Large AC Rotating Machinery With High Direct Voltage	
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802.11b-1999/Cor 1-2001	IEEE standard for information technology - telecommunications and information exchange between systems - local and metropolitan area networks - specific requirement. Part 11: wireless LAN medium access control (MAC) and Physical layer (PHY) specifications. Amendment 2: higher-speed physical layer (PHY) extension in the 2.4 GHz band - corrigendum 1
802.15.4-2006	IEEE Standard for Information technology- Telecommunications and information exchange between systems- Local and metropolitan area networks- Specific requirements Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low-Rate Wireless Personal Area Networks (WPANs) <u>Revision of 802.15.4-2003</u>
802.16/Conformance01-2003	IEEE standard for conformance to IEEE 802.16 part 1: protocol implementation conformance statement (PICS) proforma for 10-66 GHz wireless MAN-SC air interface
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Designation: 802.11-1999

Sponsor: IEEE Computer Society/Local and Metropolitan Area Networks

Reaffirmation status and year: 2003

Title: Standard for Information Technology - Telecommunications and information exchange between systems - Local and Metropolitan Area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications

Status: Approved Publication of IEEE **802.11, 2003 Edition

Publication type: Special Publication

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History: PAR APP: Dec 09, 1997, BD APP: Mar 18, 1999, ANSI APP: Jul 15, 1999

Project scope: To rectify a number of errors in the current standard and to accommodate input from the JTC1 review to result in a single JTC1/IEEE standard.

Project purpose: To correct errors found in reviewing interpretation requests to the current standard and from JTC1 review.

Abstract: "802-11-1999.pdf, Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications"

Keywords: "The scope of this standard is to develop a medium access control (MAC) and physical layer (PHY) specification for wireless connectivity for fixed, portable, and moving stations within a local area."

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E-ISBN: 0-7381-2941-0
ISBN: 0-7381-2940-2
INSPEC Accession Number: 8029642
Year: 2002
Sponsored by:
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Active - IEEE Std 802b - 2004 IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture

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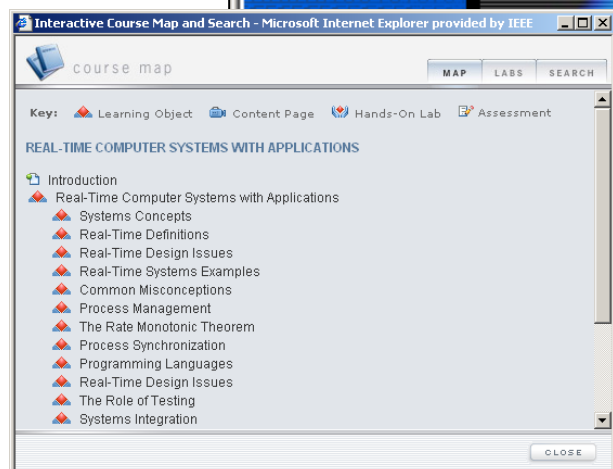
- Space-Time Communications (Wesel, Richard)
- Terahertz Sensing Technology (Shur, Michael)
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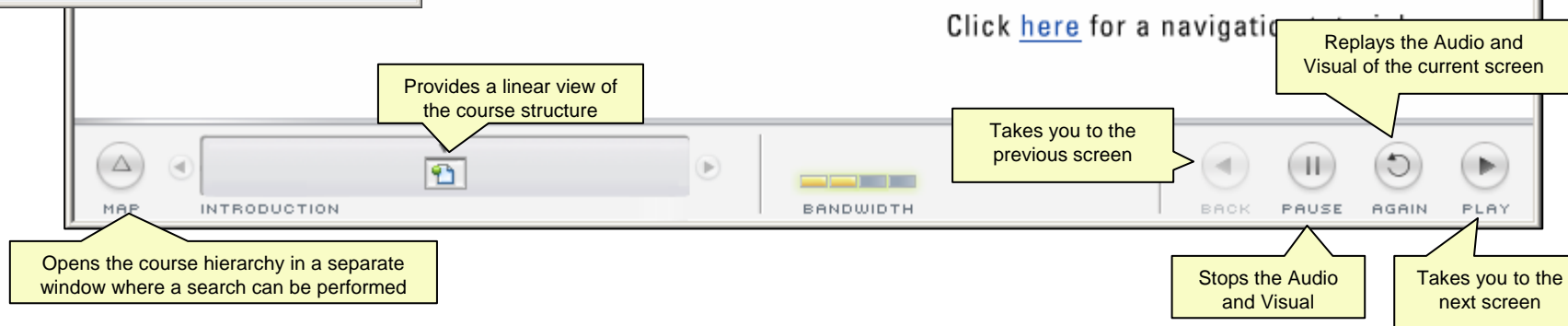
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- Author:** Martinez, David
- Sponsored by:** IEEE Aerospace & Electronic Systems Society
- Presented at:** International Radar Conference (IRC)
- Publication Date:** Jul-05
- ISBN:** 0-7803-9660-X
- Run Time:** 1:00:00
- Price:** US \$69.95 (with a "Buy Now" link)
- Access Course** (link)
- Abstract:** This tutorial presents an overview of the current developments in the field of embedded computing drawing from signal and image processing applications. The module reviews computing complexity drivers, implementation approaches in hardware and software, and concludes with a discussion on recent trends. After completing this course you should be able to develop an understanding of: Generic Phased-Array Architecture; Real-Time Embedded Computing Implementation Options; Trends and Advanced Techniques.
- Educational Course Subject Areas:** Aerospace, Signal Processing
- Keywords:** processor architectures, central processing unit, CPU, memory hierarchy, interconnection networks, programming paradigms, parallel processing standards

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ESDU工程技术数据库





- 工程科学数据集（Engineering Sciences Data Unit, ESDU），简称**ESDU**
- 内容覆盖航空机械，化学，结构工程以及环境工程和材料科学等领域
- **ESDU** 是目前唯一提供有效已验证数据的工学领域专业数据库
- **ESDU**主要向工程设计人员提供经验性数据处理方法，及设计问题解决方案，内容偏重于理论设计及应用方面



ESDU与其他研究文献的区别

- 一般期刊主要的读者是研究人员和博士，而不是提供给工程师
- 期刊上的信息常常会有争议，有时也会出错
- 专业文献的制作和印刷时间很长；出版时可能已经过期
- 专业文献和期刊的一般来自少数几个机构，带有学术倾向
- **ESDU**研究人员和委员会不断更新并回顾数据项目



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- 用户遍布30个国家的近400家大学、公司和科研机构
- 总部在伦敦中心东部
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 - 机械工程
 - 结构工程
 - 化学工程



AEROSPACE



- Aerodynamics 空氣動力學
- Aircraft Noise 航空器雜訊
- Composites 複合材料
- Flight Dynamics 動力學
- Fatigue 疲勞分析
- Fluid Mechanics 流體力學
- Heat Transfer 熱傳導
- Aircraft Performance 航行器性能
- Stress and Strength 壓力分析
- Aircraft Structures 航行器性能
- Transonic Aerodynamics 跨音速空氣動力學
- Vibration and Acoustic Fatigue 振動及聲疲勞
- Metallic Material Properties 金屬材料屬性

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Series: Aerodynamics 空氣動力學

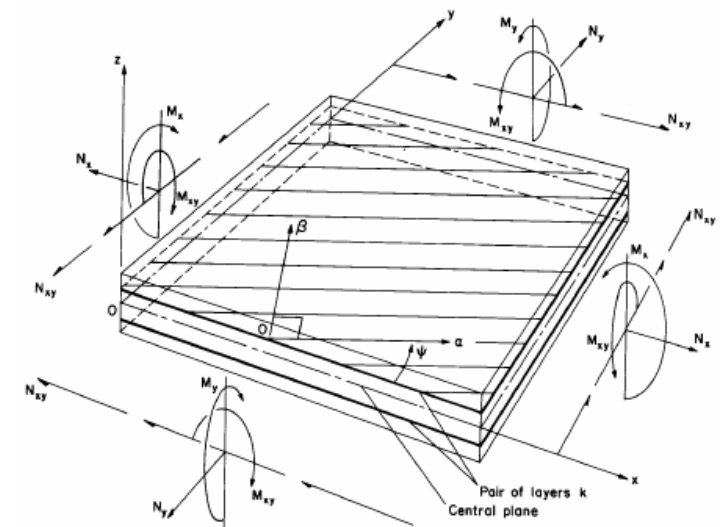
- 航空器跟環境, 設備和結構的交互
- 範例題目:
 - Properties of the atmosphere; wind speeds and atmospheric turbulence 大氣性質;風速及大氣喘流
 - Aerofoils, wings, controls, flaps 機翼, 翼, 控制裝置, 副翼
 - Wing and body combinations 機翼與機身的組合
 - Wind tunnel corrections 風洞修正
 - Drag and stability 阻力和穩定性
 - Excrescence drag
 - Cavity drag 空泡阻力
 - Ducts, nacelles, intakes, nozzles 風道, 發動機短艙, 進氣, 噴口
 - Stability of Aircraft 航空器穩定性
 - Aerodynamic heating and heat transfer 氣動力加熱和傳熱





Series: Composites 複合材料

- Laminated composites 層壓複合物 –
stress analysis 壓力分析, stiffnesses 剛度, lay-ups for special orthotropy 特殊正交各向複疊, circular hole stress raiser 圓孔壓力提升, through thickness shear stiffness 整體厚度的剪切剛度, laminate design 層壓設計
- Buckling of plates flat/curved 直板和弧板的翹曲. Sandwich panels with composite face plates 複合物面板的多層板 - wrinkling of beams, columns, panels 樑, 柱, 板格面板的皺紋
- Bolted joints 螺栓結合
- Bonded joints 黏結螺栓
- Failure criteria 斷裂條件
- Damping and response to acoustic loading 聲負載的阻尼和反應
- Natural modes of vibration 固有的振動模式

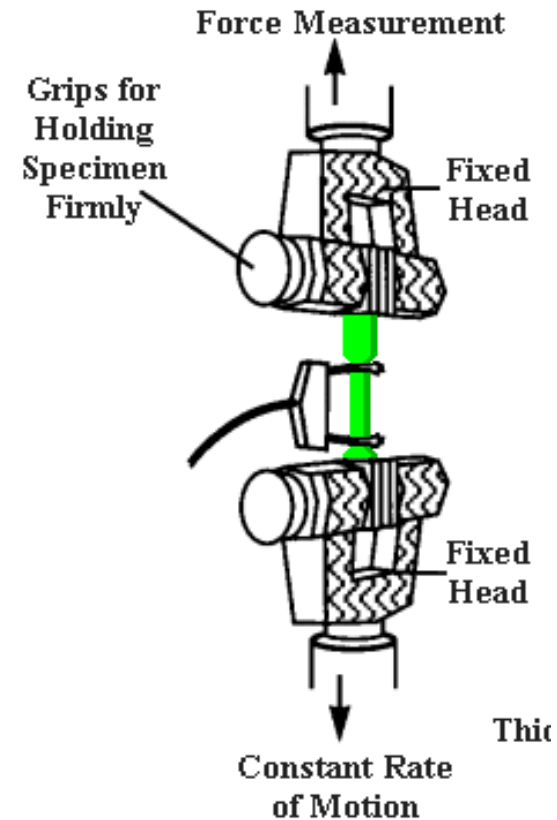


Series: Metallic Materials Data

Handbook MMDH 金屬材料屬性手冊



- 大量關於金屬材料的廣泛資料. 資料包括:
 - aluminium alloys 鋁合金
 - copper alloys 銅合金
 - heat resisting alloys 耐熱合金
 - corrosion resisting and non-corrosion resisting steels 抗腐蝕和非抗腐蝕合金
 - titanium alloys 鈦合金
 - magnesium alloys 鎂合金
- BS, DTD and EN 的標準規範認可
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 - 6. DERIVATION
 - 7. COMPUTER PROGRAM
 - APPENDIX A FORMULAE FOR CALC
 - A1. ADDITIONAL NOTATION AND UNI
 - A2. INTRODUCTION
 - A3. REVISED EQUATIONS
 - A4. DISCUSSION
 - APPENDIX B BOUNDARY-LAYER LIF
 - B1. ADDITIONAL NOTATION AND UNI
 - B2. INTRODUCTION
 - B3. ADDITIONAL DERIVATION
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