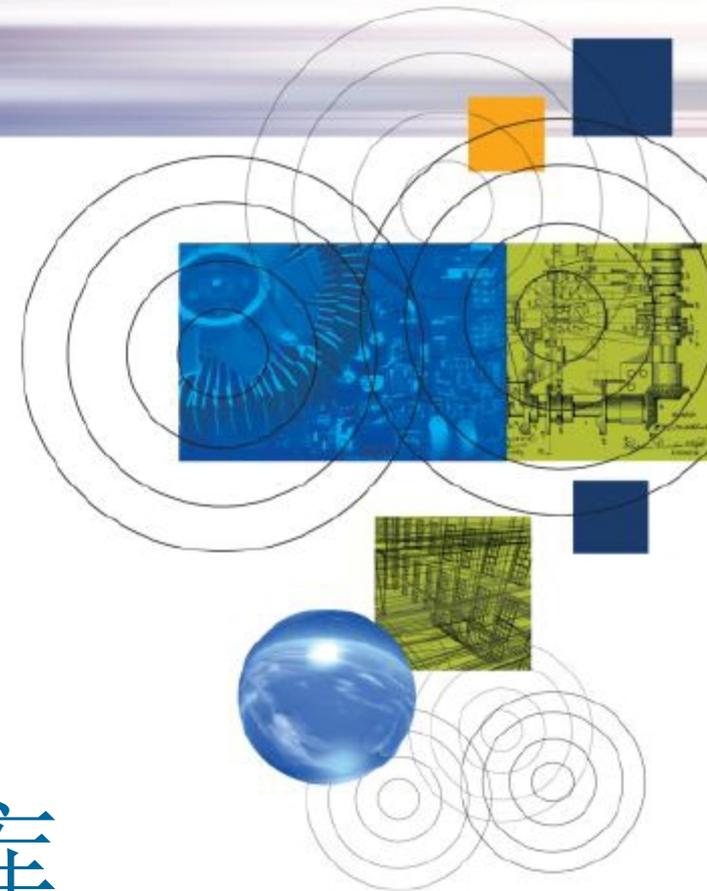


Elsevier EI Compendex 数据库



世界著名三大检索工具之一

- **EI 工程索引 Engineering Index**

由Elsevier工程信息公司(Elsevier Engineering Information Inc., 原美国工程信息公司)出版, 创刊于1884年, 主要提供应用科学和工程领域信息, 是世界工程领域内学术文献最主要、最权威的综合性检索工具之一。

是国际公认的进行科学统计与科学评价的主要检索工具, 其收录论文状况是评价国家、单位和科研人员的成绩、水平及进行奖励的重要依据之一。

- **SCI 科学引文索引 Science Citation Index** (我校1997年至今)

- **CPCI-S (原ISTP) 科技会议录引文索引** (我校2004年至今)

Conference Proceedings Citation Index–Science

由汤森路透公司(Thomson Reuters) 出版, 可在web of science (WOS)平台上同时检索。

EI compendex

EI为文摘库，不提供全文信息，但有全文链接

为EI网络版，数据包括了EI核心数据和扩展数据，其核心数据与EI印刷版和光盘版是一致的；

EV是“Engineering Village”的缩写，是EI检索平台，该平台除提供compendex检索外，还提供其他数据库的检索，如Inspec等数据库。

Elsevier爱思唯尔公司，是一家著名的荷兰出版发行商，出版期刊、图书专著、教科书和参考书的纸版和电子版，其旗舰产品：ScienceDirect, Scopus, Compendex, Inspec等.

一般说的Elsevier数据库，指Elsevier SD(ScienceDirect)，为全文库，我校购买了该库工程、计算机、物理和管理四个学科相关信息。

文摘库优势

- 1、收录范围广、数据量大、文献类型齐全
完备的索引系统，数据经过筛选质量高。
- 2、是查找全文文献的重要和必要线索
通过阅读文摘，判断是否需要下载或查找全文。
- 3、了解与某课题或某研究领域相关的研究状况，把握研究前沿动态，判断课题的新颖性。
- 4、通过看英文摘要，了解其他非英语国家的研究成果。

Compendex

- 收录年代：1969年至今
- 应用科学和工程领域的会议/期刊/技术报告等文摘索引信息
- 资料量：4100多种期刊，88300各类会议论文集和87000多个技术报告，超过1880万篇，每年新增文献100多万篇
- 包含190种工程领域学科，如：生物工程、计算机和数据处理、应用物理及光学、电子和通信、控制工程、机械工程、材料工程、交通运输等。
- 收录75个国家，2129个出版商的出版物
- 更新频率：每周
- 回溯期刊：1884-1968年回溯数据178万条

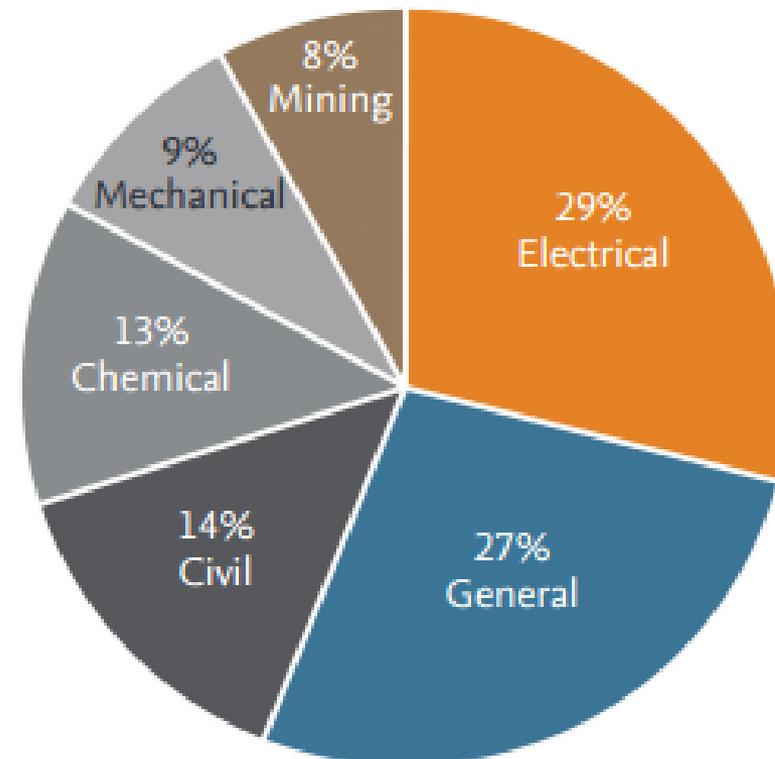
（数据统计截止到2016年2月）

Compendex

Ei Compendex cross-disciplinary areas

Ei Compendex related areas

- Applied Physics, including Optics
- Bioengineering and Biotechnology
- Food Science and Technology
- Materials Science
- Instrumentation, including Medical Devices
- Nanotechnology



Compendex

TOP 5 reasons to use Ei Compendex on Engineering Village²

1. Saves time and improves research success
2. Comprehensive search results
3. Controlled vocabulary
4. Easy to navigate
5. Interactive tutorials and helpful search features

Who uses Engineering Village?



96% of US
top 25 universities
(US News & World Report)



72% of global
top 50 universities
(QS Top Universities)



北京邮电大学 图书馆

Beijing University of Posts and Telecommunications Library

<http://lib.bupt.edu.cn/>

信息资源 ▲

读者服务 ▼

学科服务 ▼

入馆指南 ▼

纸质资源

▪ 书刊

▪ 标准

▪ 学位论文

电子资源

▪ 数据库导航

▪ 机构知识库

▪ 特色馆藏

▪ 电子图书

▪ 期刊/会议

▪ 学位论文

▪ 电子标准

▪ 多媒体

▪ 随书光盘

▪ 试用数据库

▪ 公网资源

▪ 工具与软件

▪ 使用说明

馆藏目录

电子书刊

学位论文

标准

期刊会议

多媒体

综合

所有题名 ▼

查找馆藏纸本图书、期刊

检索

说明：直找**馆藏纸本书刊**等资源，常用链接有**随书光盘**、**新书通报**；直找全国高校馆藏，请使用**E读**。

书刊检索

借阅信息

图书预约

图书续借

科技查新

查收查引

VPN访问

中文资源

外文资源

购书推荐

电子图书

期刊会议

多媒体

QQ实时咨询

随书光盘

移动阅读

管理快捷图

最新公告 最新资源

•关于公共检索系统和移动图书馆接通学校统一身份...

2016-04-0

•2016“北邮读书节”——“资源·获取·利用”...

2016-04-0

•感谢马自卫教授向图书馆赠书

2016-04-0

•第一届IPCC-Emerald版权知识竞赛

2016-03-3

•悦读悦享——Emerald 2016英语学习有奖问答...

2016-03-3

•Wiley在线讲堂开始了

2016-03-3

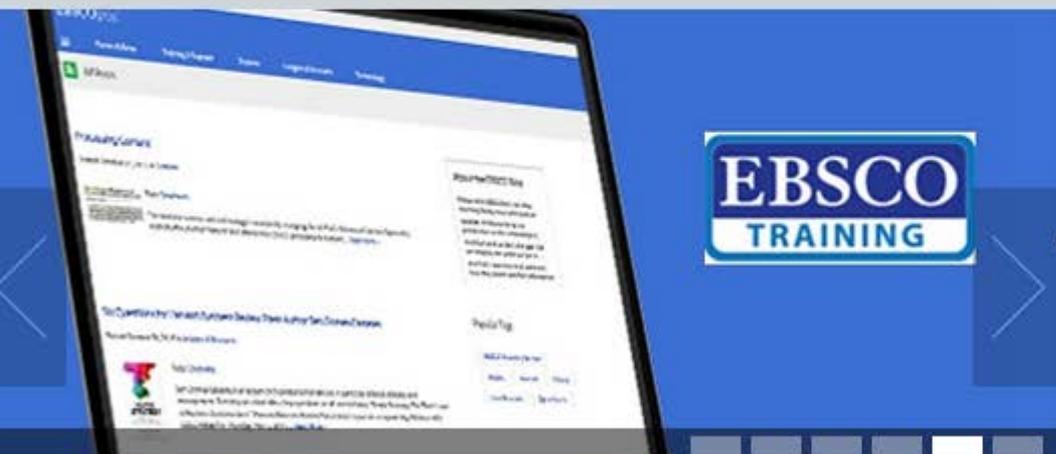
•关于图书馆工具书室服务变更的通知

2016-03-2

•图书馆关于2016年清明节期间开放安排的通知

2016-03-2

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所有题名 ▾

查找馆藏纸本图书、期刊

检索 ↻

主页 > 数据库导航

按字顺浏览数据库: [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](#) [中文库](#) [外文库](#) [全部库](#)

按分类浏览数据库:

[综合](#) [物理/光学](#) [电气/电子/通信/控制/计算机](#) [经济/管理](#) [图书馆/情报与档案管理](#) [人文社科](#) [化学/生物](#) [语言](#) [艺术](#) [法律](#)

按数据库类型浏览: [期刊](#) [会议](#) [学位](#) [标准](#) [电子图书](#) [事实数据库](#) [多媒体](#) [考试学习库](#) [检索工具](#) [文件管理软件](#) [科技报告](#) [其他](#)

| 资源名称 | 资源类型 | 学科 | 更多资源信息 |
|--|------|----|--|
| CSSCI中文社会科学引文索引 | 检索工具 | 综合 | 介绍 |
| 中国科学引文数据库 (CSCD) | 检索工具 | 综合 | 介绍 |
| SCI《科学引文索引》数据库 | 检索工具 | 综合 | 介绍 SCI在线大讲堂 NEW |
| SSCI (社会科学引文索引) | 检索工具 | 综合 | 介绍 |
| EI village | 检索工具 | 综合 | 介绍 |
| ISTP (CPCI-S)《科技会议录索引》数据库 | 检索工具 | 综合 | 介绍 |
| Essential Science Indicators (ESI) | 检索工具 | 综合 | 介绍 |
| ICR 期刊分区数据在线平台 (中科院) | 检索工具 | 综合 | 介绍 |

Quick Search

Expert Search

Thesaurus Search

Search History

DATABASE
SEARCH FOR Compendex in All fields in All fields

AND

AND

ADVANCED OPTIONS

LIMIT TO

All document types

All treatment types

All Languages

 1969 TO 2016 1 Updates

Browse Indexes

- Author
- Author affiliation
- Controlled term
- Source title
- Publisher

Latest Resources

Tools

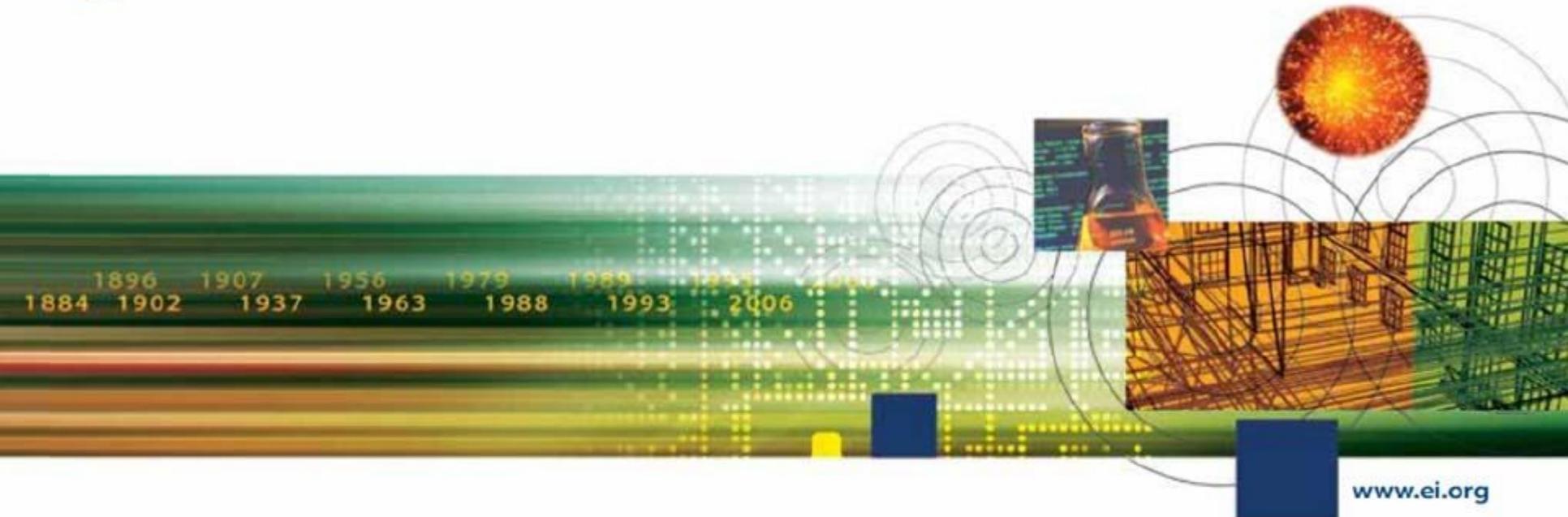
Improve
Village

检索方式：

Quick Search - 快速检索

Expert Search - 专家检索

Thesaurus search - 词库检索



Quick Search – 快速检索

Quick Search



注册/登录

Feedback

Register | Login

检索方式：快速检索、专家检索、词库检索

Search | Selected records | Settings | Tags & Groups

Quick Search | Expert Search | Thesaurus Search

Search History

检索历史

DATABASE Compendex

SEARCH FOR stress in All fields

添加检索字段

Turn Off AutoSuggest Add search field Search

ADVANCED OPTIONS

LIMIT TO All document types All treatment types All Languages 1969 TO 2016

限定检索范围

SORT BY Relevance Date (Newest) Autostemming off

检索结果排序

词根检索（建议不要勾选）

Browse Indexes: Author, Author affiliation, Controlled term, Source title. More Sources: Interactive Equations and Tools. Powered by Knovel.

Help us to improve Engineering Village

Add Search field – 增加检索字段



Search | Selected records | Settings | Tags & Groups

Quick Search | Expert Search | Thesaurus Search | Search History

Databases | Search tips

DATABASE Compendex

SEARCH FOR stress in **All fields** ⓘ

AND ▼ in **All fields**

AND ▼ in Subject/Title/Abstract

AND ▼ in Abstract

AND ▼ in Author

AND ▼ in Author affiliation

AND ▼ in Title

AND ▼ in Ei Classification code

AND ▼ in CODEN

AND ▼ in Conference information

AND ▼ in Conference code

AND ▼ in ISSN

AND ▼ in Ei main heading

AND ▼ in Publisher

AND ▼ in Source title

AND ▼ in Ei controlled term

AND ▼ in Country of origin

Turn Off AutoSuggest ⓘ

ADVANCED OPTIONS ☐

LIMIT TO ⓘ

All document types **可根据需求增加检索字段**

All treatment types ▼

All Languages ▼

1969 ▼ TO 2016 ▼

1 ▼ Updates

Search Reset

Search field –检索字段

| | |
|------------------------|--------------------------|
| All fields | 所有字段（默认） |
| Subject/Title/Abstract | 主题词/标题/摘要 |
| Abstract | 摘要 |
| Author | 作者 |
| Author affiliation | 作者单位 |
| Title | 篇名 |
| Publisher | 出版商 |
| Source title | 刊名 |
| Controlled term | Ei受控词 |
| Ei classification code | EI分类号，是数据库赋予某一类文献的指定分类代码 |

Search field –检索字段

主题词/标题/摘要 (Subject/Title/Abstract)

将从以下字段中检索:

摘要 (Abstract)

题目 (Title)

翻译的题目 (Translated title)

Ei受控词 (Ei controlled terms)

Ei主标题词 (Ei main heading)

自由词 (Uncontrolled terms)

LIMIT TO- 限定检索范围

The screenshot shows the 'LIMIT TO' section of the search interface. A dropdown menu is open, listing various filtering options. A red box highlights the 'All Languages' option, and a red arrow points to it from a text box labeled '选择语言' (Select Language). Other options include 'All document types', 'All treatment types', 'English', 'Chinese', 'French', 'German', 'Italian', 'Japanese', 'Russian', and 'Spanish'.

选择语言

文献类型：出版物类型
 All document types(default):全部(默认)
 Journal article: 期刊论文
 Conference article: 会议论文
 Conference proceeding: 会议录
 Monograph chapter: 专题论文
 Monograph review: 专题综述
 Report chapter: 专题章节
 Report review: 综述报告
 Dissertation: 学位论文
 Unpublished paper: 未出版文献

处理类型:说明文献的研究方法及所探讨主题的类型
 All treatment types: 全部 (默认)
 Applications: 应用
 Biographical: 传记
 Economic: 经济
 Experimental: 实验
 General Review: 一般性综述
 Historical: 历史
 Literature Review: 文献综述
 Management Aspects: 管理方面
 Numerical: 数值
 Theoretical: 理论

组合顺序

如果三个文本框中均有输入，快速检索（Quick Search）总是先合并检索前两个文本框中的词，然后再检索第三个文本框中的词。

a AND b OR c 检索的顺序为 (a AND b) OR c

a OR b AND c 检索的顺序为 (a OR b) AND c

a OR b NOT c 检索的顺序为 (a OR b) NOT c

检索技巧-通配符

- 右截词 (*)
 - 输入comput*, 可找到
 - computer
 - computers
 - computerize
 - computerization
- 万用字符(?)
 - 使用问号可以代表一个字母
 - 例如输入wom?n, 可以找到 woman 或 women的资料

检索技巧

- 选中Autostemming off，关掉自动取词干功能，不选，输入的词自动用截词检索
- { } 或 “ ” 表示精确检索
“near field scanning”
精确检索中截词符失效
用“near field scan*” 检索不到“near field scanning”
- 用NEAR 或 ONEAR 实现邻近检索

检索技巧

ONEAR/n指定检索词的先后顺序，中间插入n个词。

如： energy ONEAR/1 policy

可检索出energy policy

energy policies

energy efficiency policy

NEAR 词序不定

如： Solar NEAR/0 energy

可检索出energy solar 与 solar energy

NEAR和ONEAR为词干检索，可连用，但不支持截词符、通配符、括号或引号。

检索技巧

作者检索要考虑作者姓名拼写的各种方式

如：“张建国”可能会有如下拼写方式

zhang jianguo

zhang jian guo

zhang jian-guo

jianguo zhang

jian guo zhang

jian-guo zhang

zhang j g

zhang j

通常可以用作者单位(Author affiliation)辅助定位检索

如北邮地址可用：100876 OR posts OR bupt

Search history- 检索历史

可对多个检索结果重新编辑检索

Quick Search | Expert Search | Thesaurus Search | Search History (6)

Search history ⓘ

Combine Searches: e.g., (#1 AND #2) NOT #3 [Search] SORT BY: Relevance (selected) | Date (Newest)

| Combine | Search | Database | Delete |
|-----------------------------|---|---------------------|-------------------------------------|
| 6. <input type="checkbox"/> | ((stress) WN All f... Query details | 786,705 Compendex | <input checked="" type="checkbox"/> |
| 5. <input type="checkbox"/> | ((stress) WN All f... Query details Edit Save Search Create Alert | 672,684 Compendex | <input checked="" type="checkbox"/> |
| 4. <input type="checkbox"/> | ((stress) WN All fields) Query details Edit Save Search Create Alert | 786,705 Compendex | <input checked="" type="checkbox"/> |
| 3. <input type="checkbox"/> | ((stress) WN MH) | 13,831 Compendex | <input checked="" type="checkbox"/> |
| 2. <input type="checkbox"/> | ((stress) WN TI) | 121,950 Compendex | <input checked="" type="checkbox"/> |
| 1. <input type="checkbox"/> | ((stress) WN TI) | 151,111 Compendex | <input checked="" type="checkbox"/> |

[View Saved Searches](#)

显示详细的检索信息

Type: Quick
 Years: 1969 - 2016
 Sort: Relevance
 Autostemming: On

Edit: 编辑检索指令
 Save Search: 储存检索策略(* 需要注册个人账号)
 Create Alert: 建立e-mail新知通报(*需要注册个人账号)

点击检索结果可重新查询编辑检索式

Browse indexes—查找索引

Quick Search | Expert Search | Thesaurus Search | Search History

DATABASE Compendex

SEARCH FOR {J AMER CHEM SOC} in Source title

AND AND

ADVANCED OPTIONS

LIMIT TO

- All document types
- All treatment types
- All Languages
- 1969 TO 20
- 1 Updates

Engineering Village - Browse Index - Lookup - Google Ch...

https://www.engineeringvillage.com/search/browseindex

Search for: J Find Submit

Selected index: Source title

Click on letter below to browse index:
[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](#)

[Ja](#) [Jb](#) [Jc](#) [Jd](#) [Je](#) [Jf](#) [Jg](#) [Jh](#) [Ji](#) [Jj](#) [Jk](#) [Jl](#) [Jm](#) [Jn](#) [Jo](#) [Jp](#) [Jq](#) [Jr](#) [Js](#) [Jt](#) [Ju](#) [Jv](#) [Jw](#) [Jx](#) [Jy](#) [Jz](#)

Select terms below to add to search

Connect terms with: AND OR

- J ACOUST SOC AM
- J ACOUST SOC AMER
- J AEROSOL SCI
- J AIR POLLUT CONTR ASS
- J AIRCR
- J AM CERAM SOC
- J AM CONCR INST
- J AM HELICOPTER SOC
- J AM INST PLANN
- J AM LEATHER CHEM ASSOC
- J AM SOC INF SCI
- J AM SOC SAF ENG
- J AM SOC SAFETY ENG
- J AM WATER WORKS ASSOC
- J AMER CERAM SOC
- J AMER CHEM SOC
- J AMER CONCRET INST
- J AMER CONCRETE INST
- J AMER HELICOPTER SOC

Browser Indexes

- Author
- Author affiliation
- Controlled terms
- Source title
- Publisher

Latest Resources

More Sources

Interactive Equations and Tools
Powered by Knovel

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About Ei About Engineering Village
History of Ei Accessibility Statement
Content Available
Who uses EV?

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检索结果

检索方式、条件与检索结果

Quick Search
786705 articles found in Compendex for 1969-2016: ((stress) WN All fields)

选择每页显示的文献数量，最多100篇/页

Display: 25 results per page

二次检索

-图表显示
-导出数据
-展示/关闭限缩

文献内容-详细格式/
摘要预览/ Scopus中
被引次数/全文链接

Refine results

Limit to Exclude

Add a term

Author

- Wang, Wei (507)
- Zhang, Wei (460)
- Wang, Jun (403)
- Li, Wei (391)
- Wang, X. (382)

Author affiliation

- Univ Of California (1342)
- Imec (765)
- Sandia National Laboratories (765)
- Department Of Geotechnical Engineering, Tongji University (736)
- State Key Laboratory Of Geomechanics And Geotechnical Engineering, Institute Of... (729)

Controlled vocabulary

Classification code

Country

Document type

Language

Year

Source title

Publisher

Limit to Exclude

Select: Selected Records (0) Remove all Selected Records

Sort by: Relevance

1. of lithiation-induced stress in silicon nanoparticles using micro-Raman spectroscopy

Zeng, Zhidan (Department of Geological Sciences, Stanford University, Stanford; CA, United States); Liu, Nian; Zeng, Qiaoshi; Lee, Seok Woo; Mao, Wendy L.; Cui, Yi

Source: Nano Energy, v 22, p 105-110, April 01, 2016

Full Text

2. ...

Scopus Preview

www.sciencedirect.com/science/article/pii/S004060900902111

3. Thermal-poro elastic stress effect on stress reorie

Database: Compendex

4. Structure-dependent behavior of stress-induced vo

Wu, Zhen-Yu (Key Laboratory, Ministry of Education for Band-Gap); Feng-Li, J. (1)

Tang; Chai, Chang-Chun; Li, Yue-Jin; Wang, Jia-You; Li, Bin; Liu, Fiedlor, H. (1)

Gessner, T. (1)

Hermann, S. (1)

Hetschold, M. (1)

Database: Compendex

Detailed | Hide preview | Cited by in Scopus (3) | Full

在搜索结果内搜索...

导出 | 下载 | 查看引文概况 | 查看“施引文献” | 更多...

Refine

限制范围 排除

年份

- 2012 (2)
- 2010 (1)

作者姓名

学科类别

- Engineering (2)
- Materials Science (2)

每页显示 20 个搜索结果

显示摘要 | 相关文章

- Distinguishing between individual contributions to the via resistance in carbon nanotubes based interconnects
- Finite element analysis of thermal stress for different Cu interconnects structure
- Exemplified calculation of stress migration in a 90nm node via structure

显示摘要 | 相关文章

文献内容：摘要形式

Abstract

Detailed

 Highlight search terms

Record 21 from Compendex & Inspec for: ((stress) WN All fields), 1884-2012

Check record to add to Selected Records

21. **Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom**

Brujan, Emil-Alexandru^{1,2} ; Vogel, Alfred¹ Source: *Journal of Fluid Mechanics*, v 568, p 281-308, July 10, 2006; ISSN: 00221120, E-ISSN: 14697545; DOI: 10.1017/S0022112006000116; Publisher: Cambridge University Press

Author affiliations:

¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany² Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania

Abstract:

Stress wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd:YAG laser pulses of 6 ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in plasmas as two orders of magnitude from the static values. The discovery of a tensile **stress** wave after optical breakdown in tissue-like media is of great importance for the assessment of collateral damage in laser surgery because biological tissues are much more susceptible to tensile **stress** than to compressive **stress**. © 2006 Cambridge University Press. (79 refs)

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Compressive **stress** - Computer simulation - Mechanical properties - Semiconductor lasers - Tensile **stress**Uncontrolled terms: Cavitation bubble dynamics - Compressive **stress** wave - Optical breakdown

Classification Code: 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 744.4.1

Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Gases, Liquids and Solids

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 Zeng, Zhidan (Department of Geological Sciences, Stanford University, Stanford; CA, United States); Liu, Nian; Zeng, Qiaoshi; Lee, Seok Woo; Mao, Wei
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 Wu, Zhen-Yu (School of Microelectronics, Xi'an University of Science and Technology, Xi'an, China); Tang, Chao; Yang, Yin
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- An elucidation for the central stress minimum in granular piles using the smoothed particle hydrodynamics**
 Yuu, Shinichi (Ootake R. and D. Consulting Office1-17-27-508 OotakeHigashiku 811-0322Fukuoka Japan); Umekage, Toshihiko
 Source: *AIChE Journal*, 2016
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 Gao, Jie (University of Rochester)
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1.

Accession number: 20160301815755

 Article in Press 

Title: An elucidation for the central stress minimum in granular piles using the smoothed particle hydrodynamics

Authors: Yuu, Shinichi¹  Umekage, Toshihiko²

Author affiliation: ¹ Ootake R. and D. Consulting Office1-17-27-508 OotakeHigashiku 811-0322Fukuoka Japan

² Department of Mechanical EngineeringKyushu Institute of Technology1-1 SensuichoTobataku 804-8550Kitakyushu Japan

Corresponding author: Yuu, Shinichi (yyykm@jcom.home.ne.jp)

Source title: AIChE Journal

Abbreviated source title: AIChE J.

Issue date: 2016

Publication year: 2016

Language: English

ISSN: 00011541

E-ISSN: 15475905

CODEN: AICEAC

Document type: Article in Press

Publisher: John Wiley and Sons Inc.

Abstract: Stress distributions on bases of granular piles were predicted based on the constitutive relations obtained by the discrete element method (DEM) using the smoothed particle hydrodynamics to elucidate the mechanism of the central stress minimum beneath piles. The calculated stress distributions are in good agreement with the experimental data of researchers. A stress peak and a central stress minimum are mainly formed by the granular flows in a pile construction. The location of the stress peak was the same location of the minimum granular velocity before the granular pile became stationary. This suggests that the location of the stress peak corresponds to the base of the granular arching. The stress distributions on the bases by a homogeneous falling showed the central stress maximum. The low shear stress gradient by the homogeneous falling produces a central stress peak with a gentle slope. © 2015 American Institute of Chemical Engineers.

Main heading: Piles

Controlled terms: Finite difference method - Fluid dynamics - Granular materials - Hydrodynamics - Location - Particles (particulate matter) - Shear stress - Stress concentration

Uncontrolled terms: Central stress minimum - Constitutive relations - Pile construction - Simulation - Smoothed particle hydrodynamics - SPH - Stress gradient - Stresses distribution

Classification code: 408.2 Structural Members and Shapes - 921.6 Numerical Methods - 931.1 Mechanics - 951 Materials Science

DOI: 10.1002/aic.15148

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21. **Accession number:** 2006289991405

Title: Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom

Authors: Brujan, Emil-Alexandru^{1,2} Vogel, Alfred¹

Author affiliation: ¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Wag 4, 23564 Lübeck, Germany
² Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania

Corresponding author: Vogel, A. (vogel@bmo.uni-luebeck.de)

Source title: Journal of Fluid Mechanics

Abbreviated source title: J. Fluid Mech.

Volume: 558

Issue date: July 10, 2006

Publication year: 2006

Pages: 291-308

Language: English

ISSN: 00221120

E-ISSN: 14697645

CODEN: JFLSA7

Document type: Journal article (JA)

Publisher: Cambridge University Press

Abstract: Stress wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd:YAG laser pulses of ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in

Number of references: 79

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Compressive stress - Computer simulation - Mechanical properties - Semiconductor lasers - Tensile stress

Uncontrolled terms: Cavitation bubble dynamics - Compressive stress wave - Optical breakdown

Classification code: 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 744.4.1 Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Gases, Liquids and Solids

Treatment: Theoretical (THR)

DOI: 10.1017/S0022112005006115

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Shock wave emission from a cloud of bubbles
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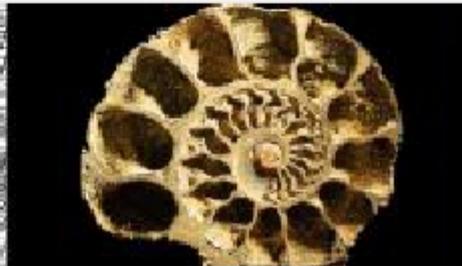
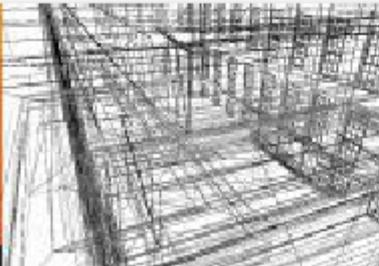
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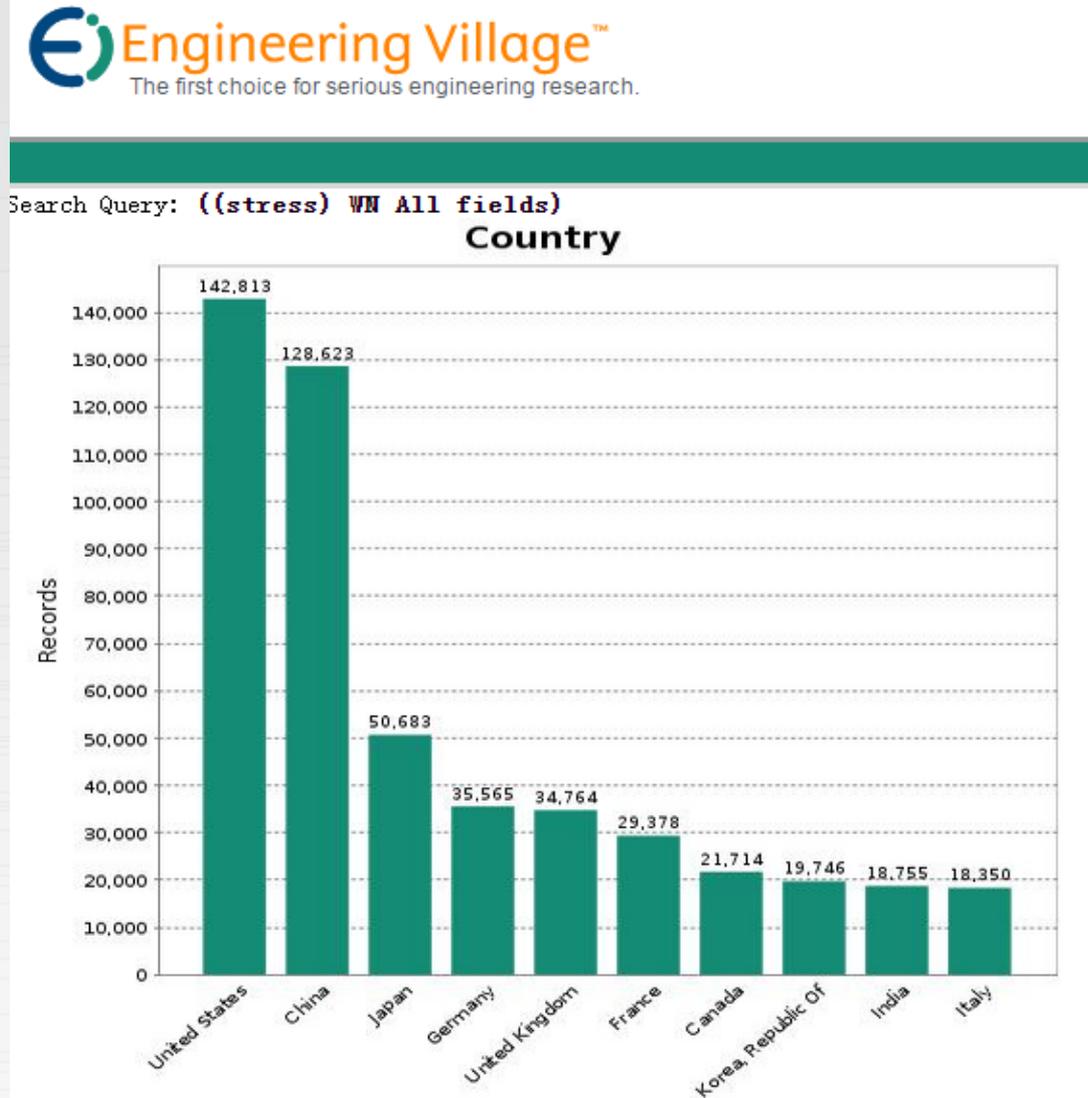
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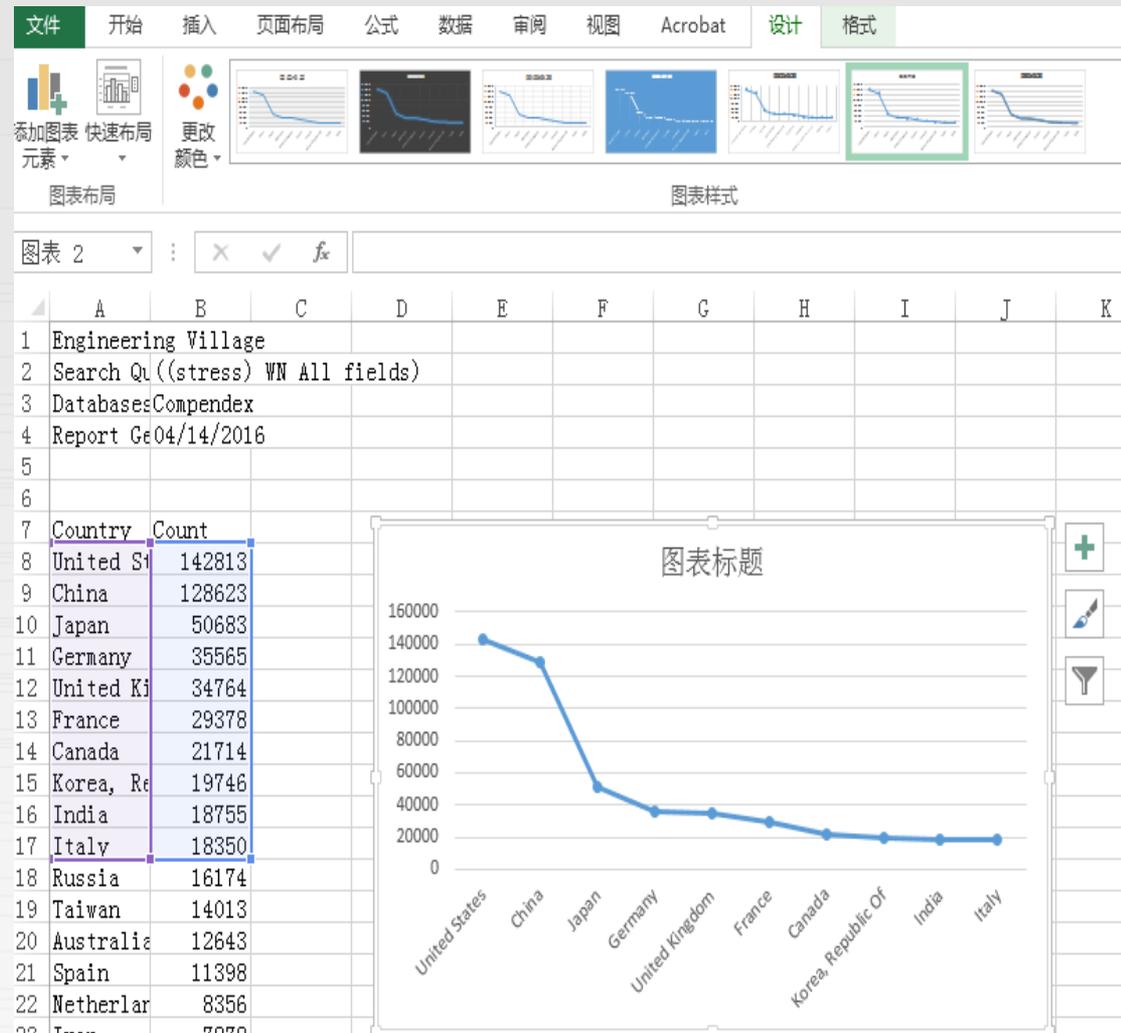
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Source: *Journal of Fluid Mechanics*, v 558, p 281-301, 2006, 14697645; DOI: 10.1017/S0022112006000115; Pul

Author affiliations:

- ¹ Institute of Biomedical Optics, University of Lübeck
- ² Department of Hydraulics, University Politehnica, S Romania

Abstract

Stress wave emission and cavitation bubble dynam phantom with Nd: YAG laser pulses of 6 ns duration numerically to obtain a better understanding of the p as two orders of magnitude from the static values. T breakdown in tissue-like media is of great importan laser surgery because biological tissues are much compressive **stress**. © 2006 Cambridge University

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Mechanical properties - Semiconductor lasers - T

Uncontrolled terms: Cavitation bubble dynamics -

Classification Code: 631.1.1 Liquid Dynamics - 723 Semiconductor Lasers - 751.2 Acoustic Properties Liquids and Solids

Treatment: Theoretical (THR)

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Brujan, Emil-Alexandru^{1, 2} ✉; Vogel, Alfred¹ ✉

Source: *Journal of Fluid Mechanics*, v.558, p.281-308, July 14697545; DOI: 10.1017/S0022112006000115; Publisher

Author affiliations:

¹ Institute of Biomedical Optics, University of Lübeck, Peter

² Department of Hydraulics, University Politehnica, Spl. Ind. Romania

Abstract:

Stress wave emission and cavitation bubble dynamics after stress wave emission and cavitation bubble dynamics after phantom with Nd:YAG laser pulses of 6 ns duration were investigated numerically to obtain a better understanding of the physical processes as two orders of magnitude from the static values. The dynamic optical breakdown in tissue-like media is of great importance for laser surgery because biological tissues are much more sensitive to compressive **stress**. © 2006 Cambridge University Press.

Main heading: **Acoustic emissions**

Controlled terms: **Bubbles (in fluids)** - **Cavitation** - **Compendex** - **Mechanical properties** - **Semiconductor lasers** - **Tensile**

Uncontrolled terms: **Cavitation bubble dynamics** - **Compressive stress wave** - **Optical breakdown**

Classification Code: **531.1.1** Liquid Dynamics - **723.5** Computer Applications - **744.4.1**

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Treatment: Theoretical (THR)

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Accession number: 20160801993383

Title: **In situ measurement of lithiation-induced stress in silicon nanoparticles using micro-Raman spectroscopy**Authors: Zeng, Zhidan^{1, 2, 3}; Liu, Nian⁴; Zeng, Qiaoshi^{1, 2, 3}; Lee, Seok Woo⁴; Mao, Wendy L.^{1, 5} ; Cui, Yi^{4, 5} Author affiliation: 1 Department of Geological Sciences, Stanford University, Stanford; CA, United States
2 Center for High Pressure Science and Technology Advanced Research (HPSTAR), Shanghai, China

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21. **Stress wave emission from optical breakdown**

Brujan, Emil-Alexandru

Source: *Journal of Applied Physics* 146:97645, DOI: 10.1063/1.4911117

Author affiliations:

1 Institute of Biomaterials and Biomechanics, Romanian Academy, Bucharest, Romania
2 Department of Health Physics, Faculty of Physics, University of Medicine and Pharmacy, Bucharest, Romania

Abstract:

Stress wave emission from optical breakdown is investigated numerically to obtain a breakdown threshold as two orders of magnitude lower than the experimental breakdown threshold in tissue. Laser surgery becomes possible because of the compressive stress wave emission.

Main heading: Acoustic waves

Controlled terms: Mechanical properties; Mechanical properties

Uncontrolled term: Stress waves

Classification Code: Semiconductor Lasers; Liquids and Solids

Treatment: Theoretical

Database: Compendex Plus

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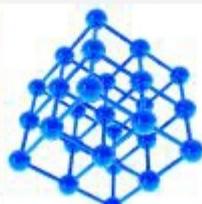
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¹ Université de Lyon, Laboratoire de Physique, École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France

² Laboratoire de Physique de la Matière Condensée et Nanostructures, Université de Lyon, Université Claude Bernard Lyon 1, 43 Boulevard du 11 Novembre 1918, 69622, Villeurbanne cedex, France

Abstract:

Stress-induced fluidization of a simple yield **stress** fluid, namely a carbopol microgel, is addressed through extensive rheological measurements coupled to simultaneous temporally and spatially resolved velocimetry. These combined measurements allow us to rule out any bulk fracture-like scenario during the fluidization process such as that suggested in [Caton et al., *Rheol Acta*, 2009, 47, 601-607]. On the contrary, we observe that the transient regime from solid-like to liquid-like behaviour under a constant shear **stress** σ successively involves creep deformation, total wall slip, and shear banding before a homogeneous steady state is reached. Interestingly, the total duration t_f of this fluidization process scales as $t_f \propto 1/(\sigma - \sigma_c)^\beta$, where σ_c stands for the yield **stress** of the microgel, and β is an exponent which only depends on the microgel properties and not on the gap width or on the boundary conditions. Together with recent experiments under imposed shear rate [Divoux et al., *Phys. Rev. Lett.*, 2010, 104, 208301] this scaling law suggests a route to rationalize the phenomenological Herschel-Bulkley (HB) power-law classically used to describe the steady-state rheology of simple yield **stress** fluids. In particular, we show that the steady-state HB exponent appears as the ratio of the two fluidization exponents extracted separately from the transient fluidization processes respectively under

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Divoux, T.; Tamarii, D.; Barentin, C.; Teitel, S.; Manneville, S.
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- 使用者可自行指定“任何”有意义的关键词做为标签
- 使用者也可以编辑标签

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- 使用者的标签可成为新的检索关键词
- 检视“标签云”大小：可依照其字母顺序、受欢迎程度或新颖程度排序

Tag 团队间的分享



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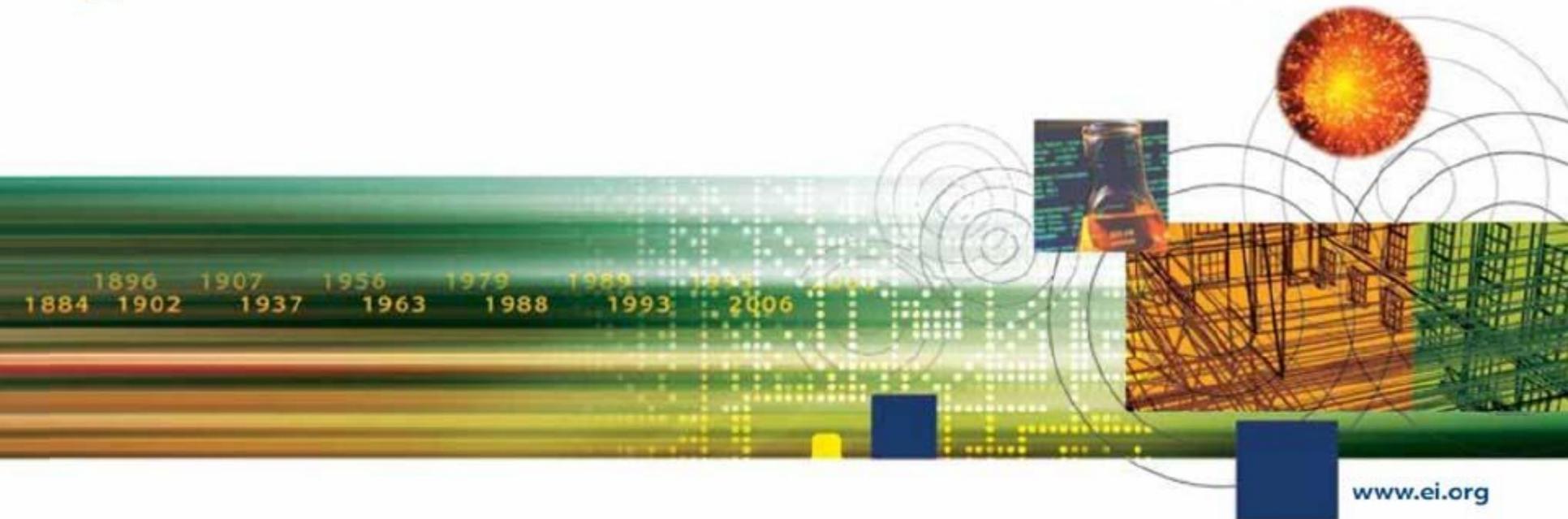
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1 123 Ad hoc networks AP Arabidopsis thaliana assessment cao Capillary electrophoresis Channel estimation Conducting polymers Data sets Datasets Electronic cooling ESJP Fault diagnosis folksonomy Gene expression Gulf of Mexico Hydrogen production Informatics information literacy Information visualization irr irrelevant Lead free solder LINDE Mach number Matrix suction Metamaterials Microchannels Modeling Nanoparticles Noise sources nope Numerical modeling Ontology Optical Burst Switching OBS Optical networks Photonic crystal Photonic crystal fibers Photonic crystals Power quality PX Room temperature sathya Sea surface temperature SST Sensor networks Silicon photonics Soil properties Stars Suction Support Vector Machine SVM Support vector machines Support vector machines SVM survey paper tag clouds Temperature sensors test Thermal aging Thermal management Thermal protection systems Triaxial tests Unsaturated soils ustc Volume rendering Water content Water management waynestate Web based learning Web services wind turbine Wireless sensor networks xionghui **yes** Zhou

- 可为研究团队、合作者、友人建立特定分组
- 所有标签数据将只为分组成员所用
- 分组成员可看到所属团队的所有标签
- 可选择透过电子邮件将新增的标签数据分享给分组成员

Expert Search - 专家检索



Expert Search – 专家检索



Expert Search – 专家检索



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Quick Search | **Expert Search** | Thesaurus | Search History (2)

输入检索词和检索字段代码

Databases | Search tips

DATABASE SEARCH FOR

Compendex

smith wn AU and ("autonomous navigation" or radar)*

此处默认勾选进行精确检索

LIMIT TO 1969 TO 2016

SEARCH BY

Relevance

Autostemming off

检索字段代码

SEARCH CODES

| Database Key | Code = Field | Code = Field |
|---------------|---------------------------------|----------------------------------|
| c = Compendex | AB = Abstract (c) | BN = ISBN (c) |
| | AN = Accession number (c) | SN = ISSN (c) |
| | AF = Affiliation/Assignee (c) | SU = Issue (c) |
| | ALL = All fields (c) | LA = Language (c) |
| | AU = Author/Inventor (c) | PA = Patent application date (c) |
| | CL = Classification code (c) | PI = Patent issue date (c) |
| | CN = CODEN (c) | PM = Patent number (c) |
| | CC = Conference code (c) | YR = Publication year (c) |
| | CF = Conference information (c) | PN = Publisher (c) |
| | CV = Controlled term (c) | ST = Source title (c) |
| | PU = Country of application (c) | KY = Subject/Title/Abstract (c) |

Search tips

Search within a specific field using "wn"
 {test bed} wn ALL AND {atm networks} wn TI (window wn TI AND sapphire wn TI) OR Sakamoto, K* wn AU

Use truncation (*) to search for words that begin with the same letters.
 comput* returns computer, computers, computerize, computerization

Truncation can also be used to replace any number of characters internally.
 sul*ate returns sulphate or sulfate

Use wildcard (?) to replace a single character.
 wom?n retrieves woman or women

Stem search terms using \$
 \$management returns manage, managed, manager, managers, managing, management

Expert Search – 专家检索

编制检索式： 运用布尔逻辑运算符和相应的检索字段

采用within命令（wn）和字段代码，在特定的字段内进行检索。

例如：“light weight steel autobody” wn AB

AB=Abstract 摘要

TI=Title 标题

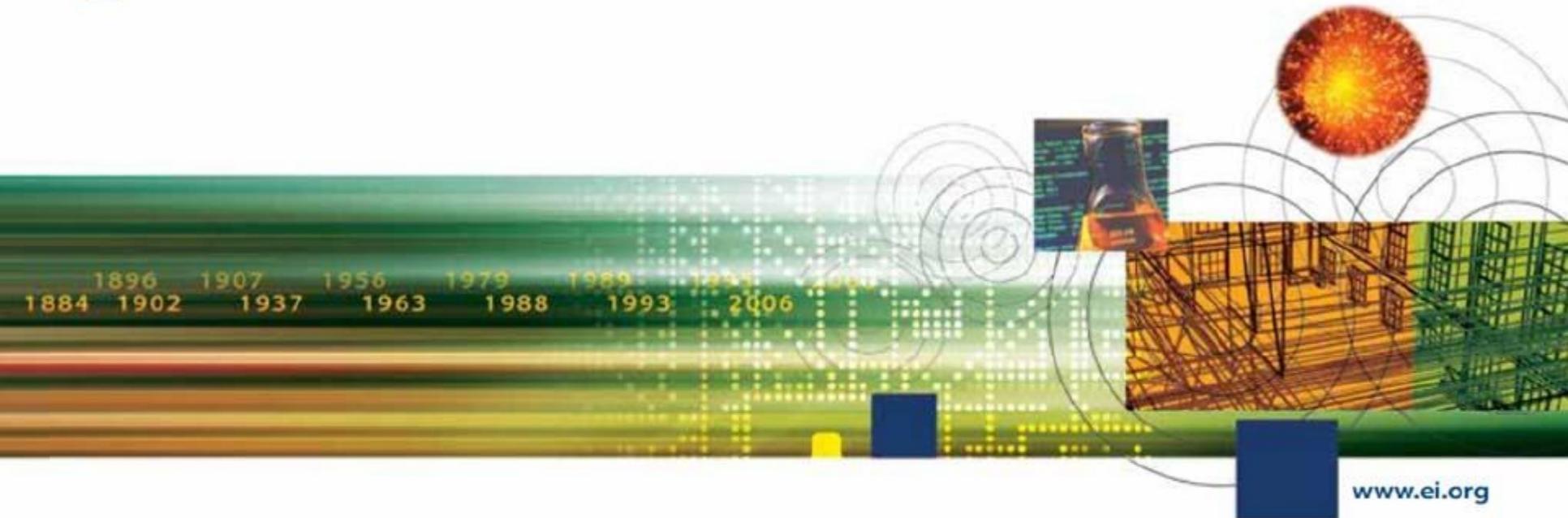
KY=Subject/Title/Abstract 主题

AN=Accession number EI检索号

也可以采用布尔逻辑运算符连接检索词。

例如：(seatbelts OR “seat belts”) wn TI

Thesaurus Search - 词库检索



Thesaurus Search – 词库检索

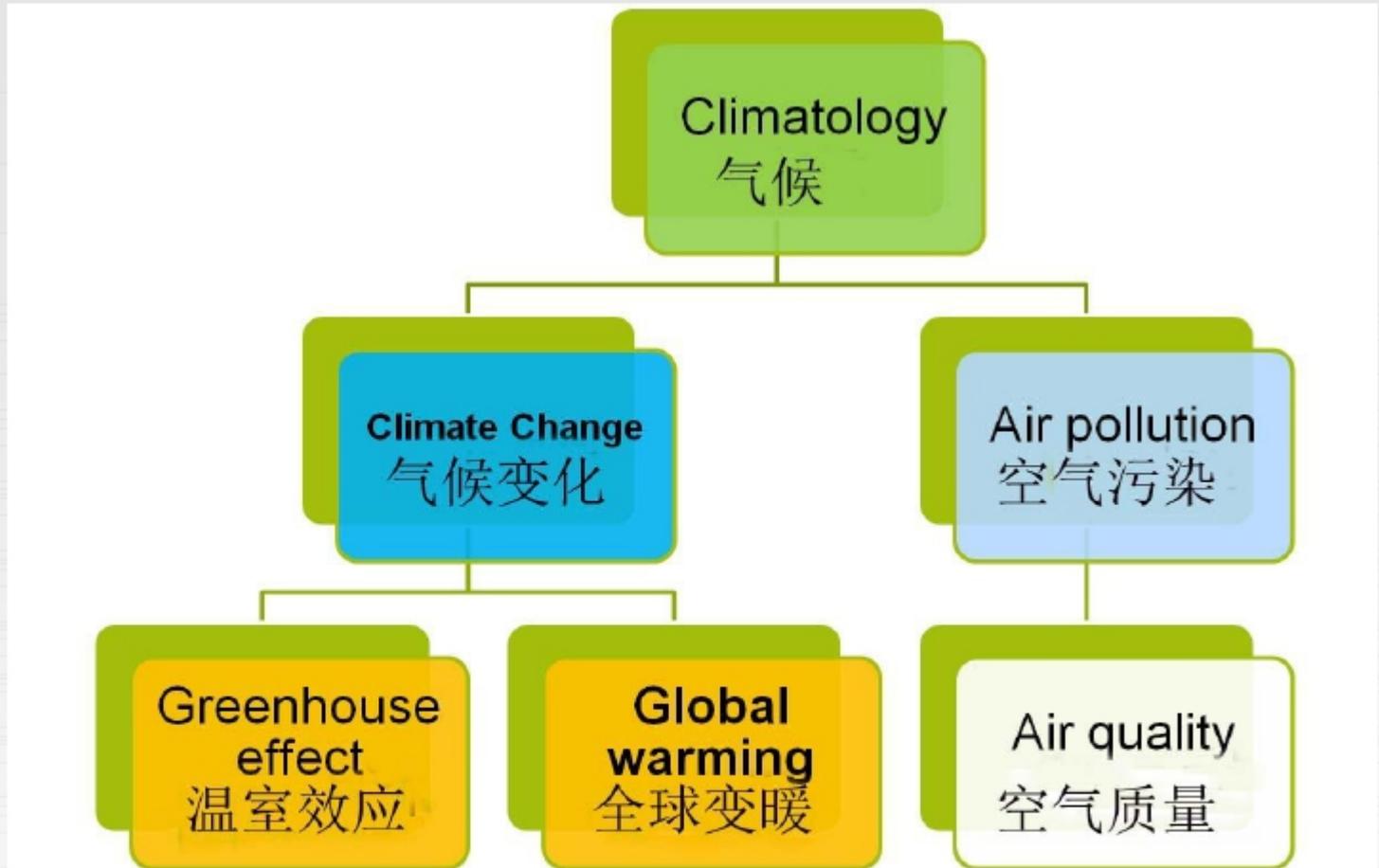


THESAURUS词库

• Broader Term
广义词

• Related Term
相关词

• Narrow Term
狭义词

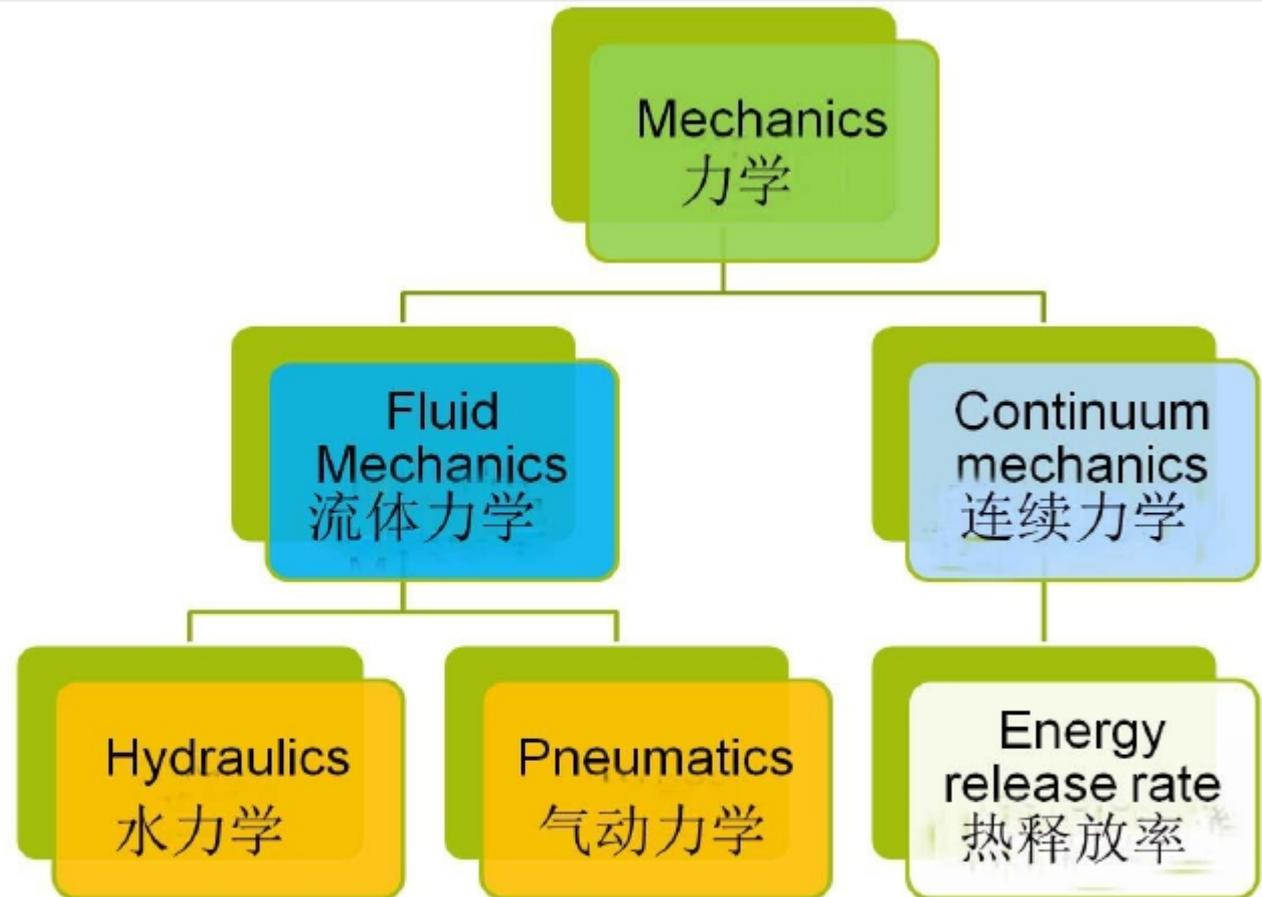


THESAURUS词库

• Broader Term
广义词

• Related Term
相关词

• Narrow Term
狭义词



词库检索: Thesaurus (Exact Term)

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可利用词库: 自动衍生工程专用同义词汇

DATABASE Compendex Inspec GeoRef GEOBASE

SEARCH FOR

Search Exact Term Browse

EXACT TERM
radiation

| Broader Terms | Related Terms | Narrower Term |
|------------------------------------|---|---|
| <input type="checkbox"/> Radiation | <input type="checkbox"/> Radiation hazards | <input type="checkbox"/> Cosmic rays |
| <input type="checkbox"/> Physics | <input type="checkbox"/> Radiation protection | <input type="checkbox"/> Electromagnetic waves |
| | <input type="checkbox"/> Radiation shielding | <input type="checkbox"/> Ionizing radiation |
| | <input type="checkbox"/> Irradiation | <input type="checkbox"/> Radiation effects |
| | <input type="checkbox"/> Radioactivity | <input type="checkbox"/> Radiation flux density |
| | <input type="checkbox"/> Radioactivity measurement | <input type="checkbox"/> Radiative transfer |
| | <input type="checkbox"/> Radiogenic gases | <input type="checkbox"/> Solar radiation |
| | <input type="checkbox"/> Radioisotope removal (water treatment) | |
| | <input type="checkbox"/> Waves | |

自动匹配上下位或相关词汇, 可组合多个词汇合并检索

LIMIT TO

All document types
 All treatment types
 All languages
 1884 TO 2012
 1 Updates

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1884 TO 2012
 1 Updates

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 A ABDULLIN SH
 A AL-TURAIGI MOHAMMED
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 A BIRANG M.
 A BRASSARD L
 A BRASSARD LOTHAR
 A BU-LIZI
 A BURCAT
 A CAMPO MARCUS
 A CHUNYAN CHEN
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 A DAVIES PETER
 A DOHEE CHO
 A DONAU SZPINDLER G.
 A ERCHA
 A FA-YOU

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| 2. Delete | Expert | {{{{{semiconductor} WN ALL}} AND {{{fieee} WN AF}}} | On | Relevance | 2,396 | 1969-2012 | Compendex | 03/27/2012 | <input type="checkbox"/> |
| 3. Delete | Thesaurus | {{{Electromagnetic waves} AND {Solar radiation}} WN CV) | | Relevance | 510 | 1969-2012 | Compendex | 04/25/2012 | <input type="checkbox"/> |
| 4. Delete | Thesaurus | {{{{{Solar radiation} WN CV} AND {{{Electromagnetic waves} WN CV}}} | | Relevance | 512 | 1969-2014 | Compendex | 12/04/2013 | <input type="checkbox"/> |

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|  climate changes |  View Folder |  Rename Folder |  Delete Folder |

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- Identify appropriate related resources

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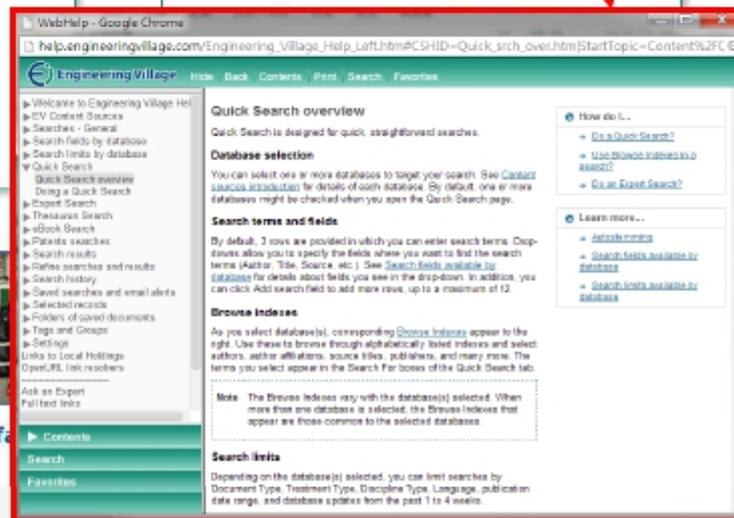
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Industrial



Mechanical



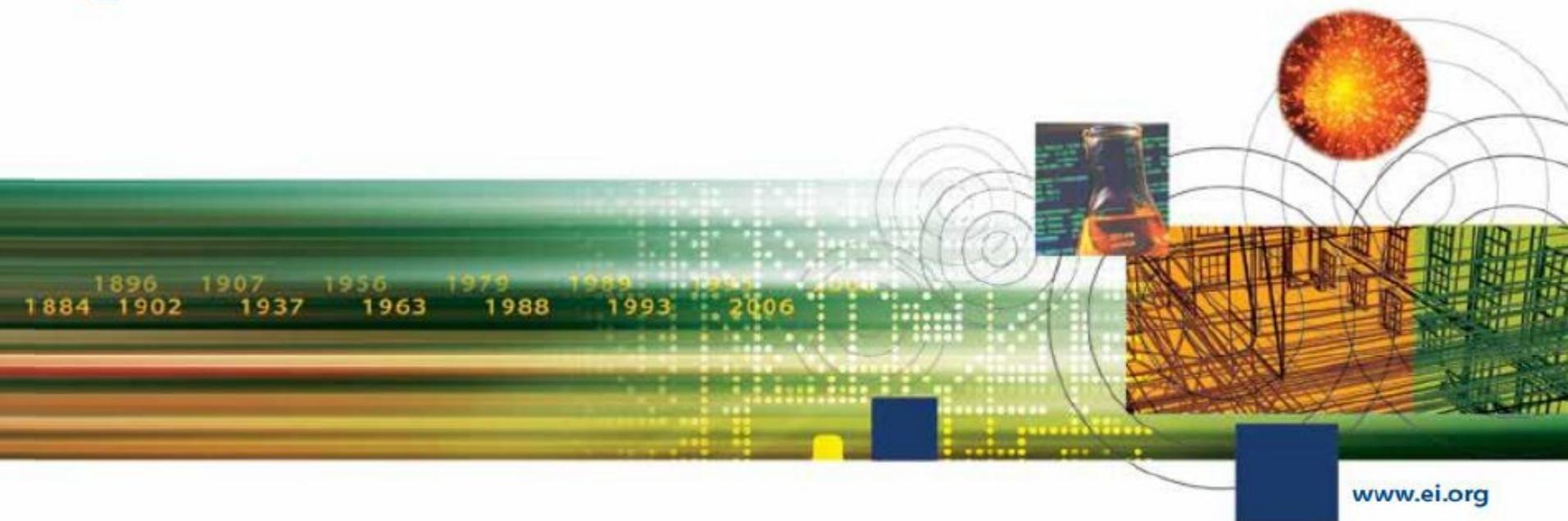
Electrical



Signal Processing



Manufacturing



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