



吉林大学
JILIN UNIVERSITY

权威综合性文摘数据库--EI

工学馆：张艳英



吉林大学图书馆
Jilin University Library

目录

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- 01 | 简介
- 02 | 检索方法
- 03 | 检索结果处理及分析
- 04 | 个性化定制
- 05 | 实例演示

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PART ONE

简介

简介--公司

美国《工程索引》EI，英文全称：**Engineering Index**

创刊：**1884**年

广泛的、多学科、最全及最权威的工程类索引数据库，EI工程技术，SCI自然科学

编辑出版：**美国工程信息公司**
(**Engineering Information Inc.**)

EI compendex：《工程索引》的网络版

综合性文摘型数据库，同Elsevier公司合并

1884~ 周更新 (**1969~至今** 我校)

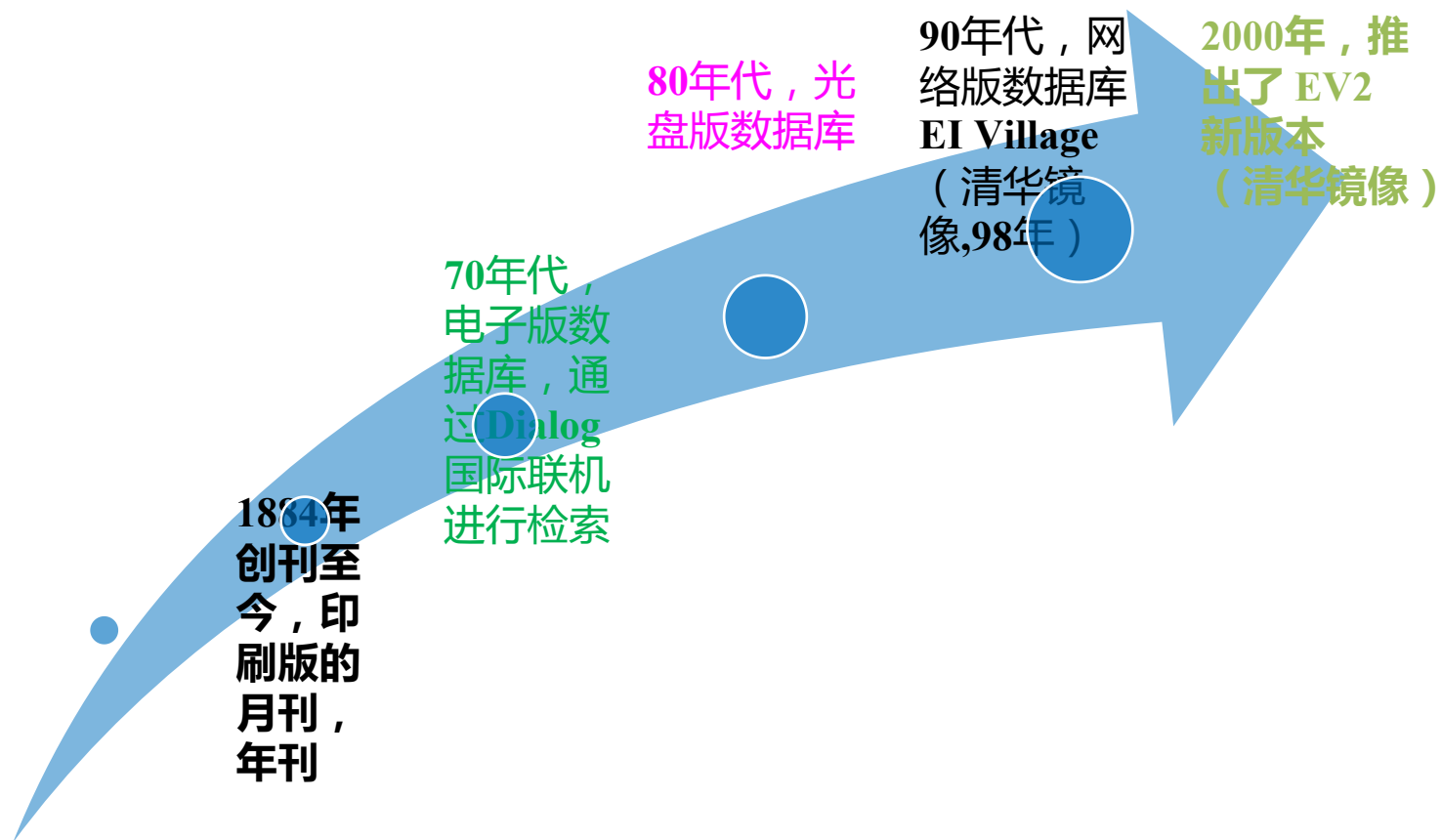
简介：190个应用科学和工程

- ✓核技术
- ✓生物工程
- ✓交通运输
- ✓化学和工艺工程
- ✓照明和光学技术
- ✓农业工程和食品技术
- ✓计算机和数据处理
- ✓应用物理
- ✓电子和通信
- ✓控制工程

- ✓土木工程
- ✓机械工程
- ✓材料工程
- ✓石油
- ✓宇航
- ✓汽车工程
- 以及这些领域的子学科

EI数据库：最详尽的工程文献数据库

简介--发展阶段



简介--检索平台

2012年7月18日 , Engineering Village平台升级



简介--检索平台及访问方式

**校内访问：任何一台接入校园网的计算机均可
通过Web方式访问**

URL地址为：

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



资源

服务

概况

帮助

鼎新中文发现

鼎新外文发现

馆藏目录

E读

搜索

意见反馈

常用服务

开馆时间

学位论文提交系统

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数据库快捷通道

新书通报

随书光盘系统

咨询服务 FAQ

网上开放课程

书刊荐购

图书捐赠

回音壁

自助服务

吉林大学最新 Web of Science 收录

常用数据库

- 中国知网CNKI.NET(账号:d
- 万方数据知识服务平台
- 维普中文期刊全文数据库
- 超星数字图书馆
- 方正中华数字书苑
- Web of Science — SCI
- ACS - American Chemical
- Elsevier ScienceDirect
- Springer Link
- Wiley Online Library
- Engineering Village 2**
- Primal - 3D 解剖学数据库

+更多

2016世界读书日系列活动

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外文电子图书有奖荐选活动

选书免单，荐购有礼——外文电子图书有 1 2 3 4 5 6 7 8

推荐服务

出版物



科技查新



新生导读



学科服务平台

白桦书声



馆际互借与文献传递

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- 【讲座】SciFinder检索疑难解析10-13
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- 【讲座】中文特种文献检索与获取—图书馆10-11
- 【讲座】中外文资源发现系统讲座—读秀10-11

+更多

EI简介--权威评价系统

01

大学学术排行

02

研究生全国优秀博
硕士论文评选、毕
业、找工作



03

教师的职称评定、
院士、杰出青年、
长江学者等的申报。

04

科研项目的课题申
请和成果鉴定等

三大检索系统：EI、SCI及CPCI-S(ISTP)

EI网络版-CompendexWeb的文献收录格式：

1、 **Compendex : Computerized Engineering Index**, 它是全记录格式，包括：题录，文摘，标引了主题词和分类号等，进行了深加工，2009年之前被称为核心数据。

2、 **Ei Page One**: 是个题录库，不录入文摘，不标引主题词和分类号, 有的Page One也有文摘，但没有标引主题词和分类号，2009年之前被称为非核心数据。**2009年1月**之前存在，之后全部为全记录格式，不再进行区分核心与非核心。

也就是说2009年1月之后，EI Compendex中收录的文献，被认为全部被EI正式收录。

Check record to add to Selected Records

10.

Accession number: 20125115814831

Title: **Intelligent domestic electricity management system based on analog-distributed hierarchy**

Authors: Ren, Peng¹ ; Xiang, Zheng¹; Qiu, Zhiliang¹

Author affiliation: ¹ School of Telecommunication Engineering, Xidian University, Xi'an 710071, China

Corresponding author: Ren, P. (pren@stu.xidian.edu.cn)

Source title: International Journal of Electrical Power and Energy Systems

Abbreviated source title: Int J Electr Power Energy Syst

Volume: 46

Issue: 1

Issue date: March 2013

Publication year: 2013

Pages: 400-404

Language: English

ISSN: 01420615

CODEN: IEPSDC

Document type: Journal article (JA)

Publisher: Elsevier Ltd, Langford Lane, Kidlington, Oxford, OX5 1GB, United Kingdom

Abstract: Electricity management system has been extensively investigated for efficiently monitoring and controlling domestic power. Nevertheless, the existing designs are generally rough, inflexible and complex, which leads to poor convenience in practice use and performance evaluation. In this paper, a systematic structure of intelligent electricity management system is firstly constructed and then corresponding embedded system is proposed for facilitating domestic power accomplishes the system functions on two interactive modules. And this architecture is very beneficial to effective operation and intelligent management. Furthermore, real-time performance of the presented scheduling scheme is researched by a constraints model and the corresponding simulation result shows a good performance, where the overtime ratio is 10.3% under an extremely bad condition. Besides, the relationship between overtime ratio and sporadic tasks is derived in a general way and also verified by simulation. © 2012 Elsevier Ltd. All rights reserved.

EI compendex

Number of references: 22

Main heading: Electricity

Controlled terms: Embedded systems - Energy management - Management - Scheduling algorithms

Uncontrolled terms: Analog-distributed - Electricity management system - Intelligent management - Monitoring and controlling - Performance evaluation - Power managements - Proposed architectures - Real time analysis - Real time performance - Scheduling schemes - Simulation - System functions

Classification code: 525 Energy Management and Conversion - 701.1 Electricity: Basic Concepts and Phenomena - 722 Computer Systems and Equipment - 723 Computer Software, Data Handling and Applications - 912.2 Management - 921 Mathematics

DOI: 10.1016/j.ijepes.2012.10.045

Database: Compendex

Compilation and indexing terms, © 2012 Elsevier Inc.

Abstract

Detailed

Highlight search terms

Record 3 from Compendex for: ((zhongguo jixie gongcheng) WN All fields), 2002-2013

Check record to add to Selected Records

3.

Accession number: 2002297023133

Title: Operating principle and design of magnetic metal belt transmission

Authors: Luo, Shanming

Source title: Zhongguo Jixie Gongcheng/China Mechanical Engineering

Abbreviated source title: Zhongguo Jixie Gongcheng

Volume: 13

Issue: 7

Issue date: Apr 10 2002

Publication year: 2002

Pages: 544

Language: Chinese

ISSN: 1004132X

CODEN: ZJGOE8

Document type: Journal article (JA)

Publisher: China Mechanical Engineering Magazine Office

Database: Compendex

Compilation and indexing terms, © 2012 Elsevier Inc.

EI PageOne

02

PART ONE

● 检索方法

- 快速检索
- 专家检索
- Thesaurus(叙词)检索
- 浏览索引

- ▶ **EI Compendex主要检索方式为快速检索（quick search）--默认检索界面、专家检索（expert search）、主题词（Thesaurus)检索**
- ▶ **浏览索引（Browse Indexes）等其它辅助检索工具**

Quick Search

Expert Search

Thesaurus

Ask an Expert

Help

快速检索

浏览索引

Quick Search | Expert Search | Thesaurus Search

DATABASE Compendex

SEARCH FOR

AND in All fields

AND

Search

LIMIT TO All document types

All treatment types

All Languages

1969 TO 2013

1 Updates

SORT BY Relevance Publication year

Autostemming off

Search Reset

叙词检索

专家检索

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

- Latest Resources
- Here's what's new
 - Training videos
 - More videos
 - Tell us what you think

- More Search Sources
- IHS Standards
 - LexisNexis News
 - USPTO

此处提供其他资源的链接，包括美国军标、工程新闻库和专利全文库

Search history

Combine	Search	Results	Database	Delete
You have not performed any searches in this session				

View Saved Searches

Note: This Search history will contain the latest 50 searches you perform in this session.

EI检索全面解析



功能区

Search | Selected records | Settings | Tags & Groups

Quick Search

Expert Search

Thesaurus Search

检索区

数据库介绍

检索提示

浏览索引

DATABASE
SEARCH FOR

Compendex

AND

AND

AND

in All fields

in All fields

in All fields

in All fields

All fields

All fields

All fields

All fields

Reset form | Add search field | Search

LIMIT TO

All document types

All treatment types

All Languages

1969 TO 2013

1 Updates

SORT BY

Relevance Publication year

Autostemming off

Search Reset

Browse Indexes

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

Latest Resources

- Here's what's new
- Training videos
- More videos
- Tell us what you think

More Search Sources

- IHS Standards
- LexisNexis News
- USPTO

Search history

Hide

Combine	Search	Results	Database	Delete
---------	--------	---------	----------	--------

You have not performed any searches in this session

[View Saved Searches](#)

Note: This Search history will contain the latest 50 searches you perform in this session.

检索方法--检索操作步骤



Search | Selected records | Settings | Tags & Groups

The screenshot shows the Engineering Village search interface with the following components and callouts:

- 1. 输入检索词**: Points to the search input field in the Expert Search section.
- 2. 选择检索字段**: Points to the dropdown menu for selecting search fields.
- 3. 选择逻辑算符**: Points to the dropdown menu for selecting logical operators (AND).
- 4. 输入第二个检索词**: Points to the second search input field.
- 5. 选择检索字段**: Points to the dropdown menu for selecting search fields for the second term.
- 6. 限定检索结果**: Points to the LIMIT TO section, specifically the date range (1969 to 2013).
- 7. 执行检索**: Points to the Search button.

Other visible elements include:

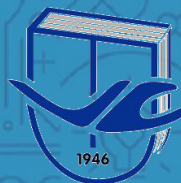
- Quick Search** and **Expert Search** tabs.
- DATABASE SEARCH FOR** section with a list of databases (e.g., Compendex).
- LIMIT TO** section with filters for document types, treatment types, languages, and dates.
- SORT BY** section with options for Relevance and Publication year.
- Browse Indexes** sidebar with categories like Controlled term, Source title, and Publisher.
- More Search Sources** sidebar with options like IHS Standards, LexisNexis News, and USPTO.
- Search history** table at the bottom.

02

PART ONE

● 检索方法

- 快速检索
- 专家检索
- Thesaurus(叙词)检索
- 浏览索引



检索方法--快速检索

1. 输入检索词

2. 选择检索字段

3. 选择逻辑运算符

4. 输入第二个检索词

5. 选择检索字段

浏览索引

6. 限定检索结果

7. 执行检索

快速检索--字段说明

检索字段

Quick Search | Expert Search | Thesaurus Search

DATABASE SEARCH FOR **Compendex**

AND AND

ADVANCED OPTIONS

LIMIT TO

- All document types
- All treatment types
- All Languages
- 1969 TO 2017
- 1 Updates

Search

Databases | Search Tips

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

Latest Resources

More Sources

Interactive Equations and Tools
Powered by Knovel

Search Fields:

- All fields
- All fields
- Subject/Title/Abstract
- Abstract
- Author
- Author affiliation
- Title
- Ei Classification code
- CODEN
- Conference information
- Conference code
- ISSN
- Ei main heading
- Publisher
- Source title
- Ei controlled term
- Country of origin
- Funding number
- Funding acronym
- Funding sponsor

Ei
[About Ei](#)
[History of Ei](#)

Engineering Village
[About Engineering Village](#)
[Accessibility Statement](#)
[Content Available](#)
[Who uses EV?](#)
[Privacy matters](#)

Customer Service
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[Blog](#)
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检索字段说明

All fields:

指EI数据库全部著录字段，为系统默认字段。

Subject/Title/Abstract:

检索将在文摘、标题、标题译文、主题词表、标引词、关键词等字段进行。检索词可为词、词组或短语。

Author(或编者):

作者指论文作者，输入时姓在前名在后。作者名后可以使用截词符，如：Smith,A*表示系统将就Smith,a., Smith,A.B, Smith,Aarom等作者进行检索。

检索中国作者，注意不同拼写方法，以免漏检，如：**韩志武**
(han, zhiwu or han, zhi-wu or han, z.w. or han, z.-w.)

检索字段说明

Author affiliation:

Ei数据库中，70年代以前机构名称用全称表示，80年代使用缩写加全称，90年代用缩写。

Publisher :

可以直接浏览出版者索引。

Source title:

包括期刊、专著、会议录、会议文集的名称。

Title:

文章的标题。检索时可以输入词、词组或短语，如：radio frequency；如果标题是其他语种，则译成英文。

Ei controlled term:

Ei受控词表示一个主题词列表，是以专业和规范的形式描述文献的内容，因此使用受控词检索比较准确。

EI main heading

Compendex数据库中的每个纪录均有一个受控词作为主标题词来表示文献的主题，其余的受控词用来描述文献中所涉及的其他概念。

Quick Search

Expert Search

Thesaurus Search

Databases | Search tips

DATABASE

All Compendex NTIS

SEARCH FOR

AND

AND

in All fields
in All fields
in All fields

处理类型的选择 (10)

Add search field | Search

LIMIT TO

- All document types
- All treatment types
- All treatment types
- Applications
- Biographical
- Economic
- Experimental
- General review
- Historical
- Literature review
- Management aspects
- Numerical
- Theoretical

SORT BY

Relevance Publication year
 Autostemming off

Search Reset

Search history

Combine

You have not performed any searches in this session.

Hide

Results Database Delete

View Saved Searches

Browse Indexes

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

Latest Resources

- Here's what's new
- Training videos
- More videos
- Tell us what you think

More Search Sources

- IHS Standards
- LexisNexis News
- USPTO

处理类型说明 (TreatmentType)

全部 All Treatment Types
应用 Applications
传记 Biographical
经济 Economic
实验 Experimental
一般性综述 **General Review**
历史 Historical
文献综述 **Literature Review**
管理 Management Aspects
数值 Numerical
理论 Theoretical

Quick Search

Expert Search

Thesaurus Search

Databases | Search tips

DATABASE All Compendex NTIS

SEARCH FOR in ⓘ

in

in

文献类型的选择 (10)

Add search field |

LIMIT TO ⓘ

- All document types
- All document types
- Journal article
- Conference article
- Conference proceeding
- Monograph chapter
- Monograph review
- Report chapter
- Report review
- Dissertation
- Patents (before 1970)
- Article in Press

SORT BY ⓘ

- Relevance
- Publication year
- Autostemming off

Search history

Dissertation
Patents (before 1970)
Article in Press

Hide

Combine	Results	Database	Delete
---------	---------	----------	--------

You have not performed any searches in this session

[View Saved Searches](#)

Browse Indexes

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

Latest Resources

- 🕒 Here's what's new
- 🕒 Training videos
- 🕒 More videos
- 🗨️ Tell us what you think

More Search Sources

- IHS Standards
- LexisNexis News
- USPTO

Note: This Search history will contain the latest 50 searches you perform in this session.

文献类型说明 (DocumentType)

期刊论文 Journal Article

会议论文 Conference Article

会议论文集 Conference Proceedings

专题论文 Monograph Chapter

专题综述 Monograph Review

报告章节 Report chapter

报告综述 Report review

专利文献 (1970年以前) Patent (before 1970)

学位论文 Dissertation

未出版文献 article in Press

快速检索可检索所有的字段、构建布尔逻辑检索式

可对检索结果做如下限定：

- 文献类型 (All document types)
- 处理类型 (All treatment types)
- 语言 (All languages)
- 年份限定 (Date limits)
- 数据更新 (Updates)
- 关闭词干检索 (Autostemming off) : 不检索词干

可限定检索结果的排序方式：

—相关性（Relevance）

—出版年份（Publication Year）

**注意：在文献类型限定（All document types）中选择检索
字段“Article in Press”，可检索到优先出版文献**

**在论文类型（All treatment types）中选择检索字段
“general review”，可检索综述性文献**

自动取词根 (AutostemmingOff)

在快速检索中，系统自动执行词干检索（除作者字段）。

如：输入navigation后,系统会将navigate, navigating, navigator等检出。取消该功能，需点击“autostemming off”。



The screenshot shows a search interface with two main sections: 'LIMIT TO' and 'SORT BY'. The 'LIMIT TO' section includes dropdown menus for 'All document types', 'All treatment types', and 'All languages', along with date filters for '1969 TO 2013' and '1 Updates'. The 'SORT BY' section has radio buttons for 'Relevance' and 'Publication year', and a checkbox for 'Autostemming off' which is highlighted with a red box. 'Search' and 'Reset' buttons are located at the bottom right.

检索规则

- 1、逻辑算符：逻辑算符用AND、OR、NOT表示。
- 2、截词符：用星号*表示，*可代表0个，1个或多个字符，可找到该单词的所有变化形式或不同拼法，分词尾截断和词间截断。如：comput* 如 computer computerized computation computational computability等作为检索词。
- 3、词组检索：做精确检索时，两个词之间紧挨着，位置不颠倒，词组或短语需用引号“ ”或括号{ }标引。
如：{control system}
“control system”

4、位置算符

Onear/n

两个词之间可插0~n 个词，词序不能颠倒。

如Distance Onear/3 learning

Near/n

两个词之间可插0~n个词，词序可以颠倒。

如Distance Onear/3 learning

5、平台不区分大小写

逻辑运算符

符号	含义	举例
AND	检索结果中必须出现所有的检索词	education and college
OR	检索结果中出现任一检索词	education or college
NOT	检索结果中不出现NOT后的检索词	education not college
()	对检索词进行分组，确定优先执行顺序	(education or study) not college

截词符

*	无限截词符*，代表一个字符串，检索与输入词起始部分一致的词	comput* = computer, computers, computerize, computerization
?	中间屏蔽符?，用于检索名词单复数的不同表达或英美不同的表达	wom?n= woman, women, womyn
*	多字符通配符，代表零个或若干个字符。	sul*ate=sulphate or sulfate
\$	词干检索。可以检索到一个词经过词形变化后的各种形式。	\$management=management, managing, managed, manager, manage, managers

位置算符

NEAR/n	两词之间可以插入0-x个词，前后位置任意。	water NEAR/0 treatment 表示两词相邻 Nano* NEAR/4 tube 表示两词可插入0-4个词且两个词前后位置可换
ONEAR/n	两词之间可以插入0-x个词，次序不可调换。	water ONEAR/5 treatment 表示两词可插入0-5个词且两个词前后位置不可换
“ ” , { }	词组检索，表示括号或引号内为词组	“computer soft” 或 {computer soft} 表示检索以词组来检索

快速检索运行规则

Compendex

SEARCH FOR

a

AND b

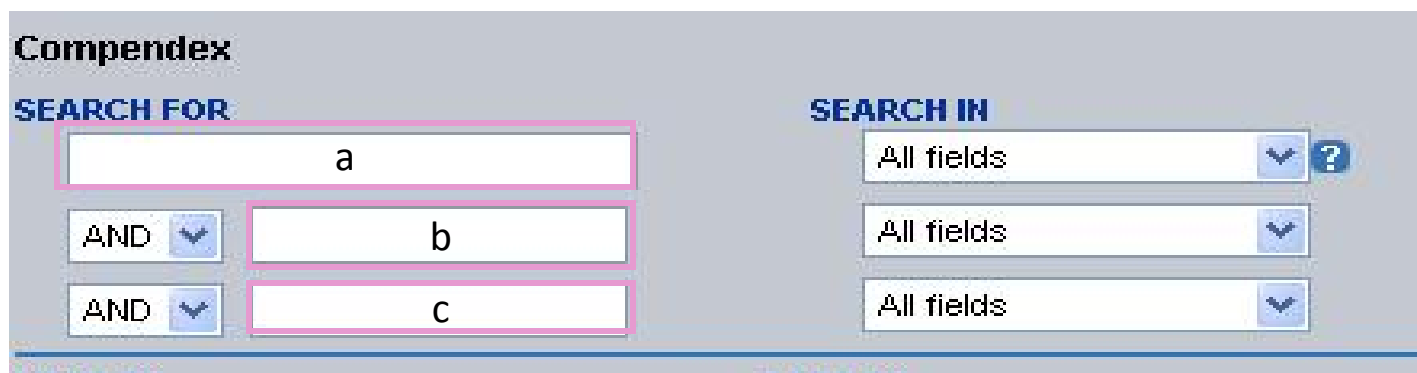
AND c

SEARCH IN

All fields

All fields

All fields

The image shows a screenshot of a search interface for Compendex. It features two main sections: 'SEARCH FOR' and 'SEARCH IN'. Under 'SEARCH FOR', there are three input fields containing 'a', 'b', and 'c', each preceded by a dropdown menu set to 'AND'. The 'SEARCH IN' section has three dropdown menus, all set to 'All fields'. The interface is light gray with blue accents.

✓ a AND b OR c \rightarrow (a AND b) OR c

✓ a OR b AND c \rightarrow (a OR b) AND c

✓ a OR b Not c \rightarrow (a OR b) NOT c

检索实例1

例1：高速电主轴动静态特性有限元分析

检索词：1. 高速电主轴

(high speed motorized spindle)

2. 动静态

(dynamic and static)

3.有限元分析

(finite element analysis)

检索式：

中文:1 and 2 and 3

英文：(high speed motorized spindle) and (dynamic and static) and (finite element analysis)

Quick Search | [Expert Search](#) | [Thesaurus Search](#) | [Search History \(0\)](#)


[Databases](#) | [Search Tips](#)

DATABASE Compendex


SEARCH FOR

<input type="text" value="high speed motorized spindle"/>	in	<input type="text" value="All fields"/>
<input type="text" value="dynamic and static"/>	in	<input type="text" value="All fields"/>
<input type="text" value="finite element analysis"/>	in	<input type="text" value="All fields"/>


AND AND

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LIMIT TO 

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SEARCH FOR high speed motorized spindle in All fields

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AND finite element analysis in All fields

Turn Off AutoSuggest | Add search field | **Search**

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20 articles found in Compendex for 1969-2017: (((high speed motorized spindle) WN All fields) AND ((dynamic and static) WN All fields)) AND ((finite element analysis) WN All fields))

New Search | Edit | Save Search | Create Alert | RSS feed | Search history

Refine results

Limit to | Exclude

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Author

- Liu, Deping (2)
- Tao, Zheng (2)
- Zhang, Hang (2)
- Choi, Hyun Jin (1)
- Duan, M. L. (1)

View more

Author affiliation

- Astar Data Storage Institute (1)
- College Of Mechanical Engineering, Donghua University (1)
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1. **Finite element analysis of high-speed motorized spindle based on ANSYS**

Liu, Deping (School of Mechanical Engineering, Zhengzhou University, Zhengzhou 450001, China); Zhang, Hang; Tao, Zheng; Su, Yufeng **Source:** *Open Mechanical Engineering Journal*, v 5, n 1, p 1-10, 2011

Database: Compendex

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2. **ANSYS-based dynamic analysis of high-speed motorized spindle**

Li, Weiguang (School of Mechanical and A Utomotive Engineering, South China University of Technology, Guangzhou, China); Pu, Hongbin; Liu, Quanquan; Chen, Gang; Zhang, Song **Source:** *Proceedings - 2009 International Conference on Computer Engineering and Technology, ICCET 2009*, v 2, p 336-340, 2009, *Proceedings - 2009 International Conference on Computer Engineering and Technology, ICCET 2009*

Database: Compendex

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3. **Analysis of step interference fit of the high speed motorized spindle with finite element method**

Ma, P (Guangdong University of Technology, Guangzhou, 510090, China); Liao, C.X.; Duan, M.L.; Li, J.K.; Li, D.N.; Zhang, B.L. **Source:** *Materials Science Forum*, v 471-472, p 844-849, 2004, *Advances in Materials Manufacturing Science and Technology. Selected Papers from the 11th International Manufacturing Conference*

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4. **Analysis of static and dynamic characteristics of milling motorized spindle based on ANSYS**

Liu, Deping (Mechatronics Institute, Zhengzhou University, Henan 450001, China); Zhang, Hang; Tao, Zheng **Source:** *Advanced Materials Research*, v 154-155, p 179-183, 2011, *Materials Processing Technologies*

Database: Compendex

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5. **The analysis of static and dynamic characteristics of motorized high-speed spindle based on sensitivity analysis of FEM model**

Yuan, Songmei (School of Mechanical Engineering and Automation, Beihang University, Beijing, China); Lv, Manbin; Liu, Xuehan **Source:** *Applied Mechanics and Materials*, v 43, p 376-381, 2011, *Advance in Mechatronics Technology*

Abstract | **Detailed**

Color Search Terms Background Highlighting

Record 1 from Compendex for: (((high speed motorized spindle) WN All fields) AND ((dynamic and static) WN All fields)) AND ((finite element analysis) WN All fields), 1969-2017

Check record to add to Selected Records

Accession number: 20114114415984
Title: Finite element analysis of high-speed motorized spindle based on ANSYS
Authors: Liu, Deping¹; Zhang, Hang¹; Tao, Zheng¹; Su, Yufeng¹
Author affiliation: ¹ School of Mechanical Engineering, Zhengzhou University, Zhengzhou 450001, China
Corresponding author: Liu, D. (ldp@zzu.edu.cn)
Source title: Open Mechanical Engineering Journal
Abbreviated source title: Open Mech. Eng. J.
Volume: 5
Issue: 1
Issue date: 2011
Publication year: 2011
Pages: 1-10
Language: English
E-ISSN: 1874155X
Document type: Journal article (JA)
Publisher: Bentham Science Publishers B.V., P.O. Box 294, Bussum, 1400 AG, Netherlands

Abstract: This paper presents a method to investigate the characteristics of a high-speed motorized spindle system. The geometric quality of high-precision parts is highly dependent on the dynamic performance of the entire machining system, which is determined by the interrelated dynamics of machine tool mechanical structure and cutting process. This performance is of great importance in advanced, high-precision manufacturing processes. The state-of-the-art in machine tool main spindle units is focus on motorized spindle units for high-speed and high performance cutting. This paper taking the high-speed milling motorized spindle of CX8075 produced by Anyang Xincheng Machine Tool Co. Ltd. as an example, a finite element model of the high-speed motorized spindle is derived and presented. The model takes into account bearing support contact interface, which is established by spring-damper element COMBIN 14. Furthermore, the static analysis, modal analysis, harmonic response analysis and thermal analysis were done by means of ANSYS commercial software. The results show that the maximum rotating speed of the motorized spindle is far smaller than the natural resonance region speed, and the static stiffness of the spindle can meet the requirements of design. The static and dynamic characteristics of the motorized spindle accord with the requirements of high-speed machining. The thermal deformation of spindle is 6.56µm, it is too small to affect the precision of the spindle. The results illustrate the rationality of the spindle structural design. © Liu et al.

Number of references: 13

Main heading: Finite element method

Controlled terms: Damping - Grinding (machining) - Machine tools - Milling (machining) - Modal analysis - Speed - Speed regulators - Static analysis - Structural design - Thermoanalysis

Uncontrolled terms: ANSYS - Bearing support - Commercial software - Contact interface - Cutting process - Dynamic performance - Finite element models - Geometric quality - Harmonic response - High speed machining - High speed milling - High-precision - High-precision manufacturing - High-speed - Machining systems - Main spindle - Mechanical structures - Motorized spindle - Natural resonance - Rotating speed - Spring-damper element - Static and dynamic - Static stiffness - Thermal deformation

Classification code: 931.1 Mechanics - 921.6 Numerical Methods - 921 Mathematics - 801 Chemistry - 732.1 Control Equipment - 723.1 Computer Programming - 604.2 Machining Operations - 603.1 Machine Tools, General - 408.1 Structural Design, General

Numerical data indexing: Size 6.56e-06m

DOI: 10.2174/1874155X01105010001

Database: Compendex

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Tools in Scopus

Cited by: This article has been cited 8 times in Scopus since 1996.

Wang, X.; Guo, Y.; Chen, T.
[Measurement research of motorized spindle dynamic stiffness under high speed rotating \(2015\) Shock and Vibration](#)

Shaik, J.H.; Srinivas, J.
[Dynamic stability of a motorized high speed machine tool spindle supported on bearings \(2014\) Applied Mechanics and Materials](#)

Author details: View Author Details in Scopus.

Liu, D.
Zhang, H.
Tao, Z. [View All Authors](#)

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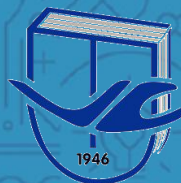
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02

PART ONE

● 检索方法

- 快速检索
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专家检索--无损检测

在EI库中查计算机层析用于火箭无损检测方面的文献。

确定概念：**计算机层析，火箭，无损检测**

概念的逻辑表达式：**计算机层析*火箭*无损检测**

确定英文检索词：

计算机层析 Computerized Tomography

火箭 Rocket、 Propellant

无损检测 Nondestructive examination

检索式： (Computerized and Tomography and (Rocket*
or Propellant*) and Nondestructive and examination) wn
ky

计算机层析

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计算机层析 的翻译结果:

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文摘

定制

英汉、汉英词典

计算机层析

computer tomography(9)

digital tomography(2)

computed ~ chromatography(0)

双语例句

computer tomography

Research on a New Computer Tomography Method

一种新的计算机层析方法研究

COMPUTER TOMOGRAPHY BASED REVERSE TECHNIQUES

基于计算机层析照相的逆向技术

短句来源



短句来源

In the past century, x ray imaging technology was developed from film-screen imaging technology, x ray intensifier imaging technology, computer radiography to flat panel imaging technology and computer tomography, and it is of indelible merits in the fields of medical, nondestructive test, industrial detection and others.

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14 articles found in Compendex for 1969-2017: (Computerized and Tomography and (Rocket* or Propellant*) and Nondestructive and examination) wn ky

Refine results

Add a term

Author

- Hildreth, Joseph H. (2)
- Akers, Douglas W. (1)
- Armistead, Robert A. (1)
- Beyer, Steffen (1)
- Burstein, Paul (1)

[View more](#)

Author affiliation

- Air Force Phillips Lab., Edwards., Ca, Usa (2)
- Aracor (1)
- Dept. Of Mech. Eng., Naval Aero. Eng. Acad. (1)
- Eads Corporate Research Centre (1)
- Eads Dornier Research And Technology (1)

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1. **Nondestructive in-situ examination of solid rocket motor propellant using induced positron technology**

Akers, Douglas W. (Positron System, Inc., Boise, ID 83713); Rideout, Curtis A. Source: *A Collection of Technical Papers - AIAA Space 2004 Conference and Exposition*, v 3, p 2165-2172, 2004, *A Collection of Technical Papers - AIAA Space 2004 Conference and Exposition*

Database: Compendex

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2. **Three-dimensional computed tomography for rocket motor inspection**

Youngberg, James E. (Perceptics Corp., Sandy, UT, USA); Burstein, Paul Source: *Proceedings of SPIE - The International Society for Optical Engineering*, v 2455, p 291-298, 1995

Database: Compendex

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3. **Response of silicon detector for high energy x-ray computed tomography**

Miyai, H. (Hitachi, Ltd, Ibaraki-ken, Japan); Kawasaki, S.; Kitaguchi, H.; Izumi, S. Source: *IEEE Transactions on Nuclear Science*, v 41, n 4 pt 1, p 999-1003, Aug 1994

Database: Compendex

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4. **Overview of X-ray techniques for solid rocket propellant regression measurements**

Jones, Daniel A. (The University of Alabama in Huntsville, Department of Mechanical and Aerospace Engineering, JRC 104, Huntsville; AL; 35899, United States); Frederick, Robert A. Source: *52nd AIAA/SAE/ASEE Joint Propulsion Conference, 2016, 2016, 52nd AIAA/SAE/ASEE Joint Propulsion Conference, 2016*

Database: Compendex

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5. **Ultrasonic Testing Technology of Debond in the Solid Propellant Rocket Motors with Multi-layered Adhesive Interface**

Wang, Zhaoba (Research Center for NDT, North China Institute of Technology, Taiyuan, Shanxi 030051, China); Yang, Fengbao; Jin, Yong; Wang, Guilan Source: *Proceedings of the International Symposium on Test and Measurement*, v 3, p 2649-2652, 2003

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6. **Using CT and digital radiography systems to inspect rocket motors**

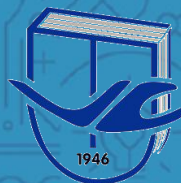
Anon Source: *Materials Evaluation*, v 52, n 2, p 165-167, Feb 1994

02

PART ONE

● 检索方法

- 快速检索
- 专家检索
- Thesaurus(叙词)检索
- 浏览索引



叙词检索

用 Thesaurus方式检索有关高层建筑抗震结构设计方面的文献

从课题名称中提取概念

高层建筑英文为：tall building

抗震：Earthquake resistance

结构设计：Structural design

检索式：

{tall buildings} AND {Earthquake resistance} AND
{Structural design}) WN CV 98条检索结果

叙词 (Thesaurus Search)



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- Talc
- Talc deposits
- Talc mines
- Talc mines and mining**
- Talcs
- Tall buildings
- Tall oil
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- Tallings
- Talc
- Talc deposits
- Talc mines
- Talc mines and mining*
- Talcs
- Tall buildings
- Tall oil
- Tallol
- Tank linings

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- Tallo!
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Tall buildings

 Tall buildings Used for: *Buildings–Tall**, *Skyscrapers***Broader Terms** Buildings

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EXACT TERM

tall buildings

Tall buildings

Used for: *Buildings—Tall**, *Skyscrapers*

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1969 TO 2013

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- Building materials
- Buildings
- Civil engineering
- Earthquake engineering
- Engineering
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- Failure (mechanical)
- Fire resistance
- Hurricane effects
- Hurricane resistance
- Impact resistance
- Light weight structures
- Mechanical engineering
- Mechanics
- Prestressing
- Safety factor
- Stresses
- Stringers
- Structural integrity
- Structural loads
- Structural optimization
- Structures (built objects)
- Struts
- Underground structures
- Undersnow structures
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98 articles found in Compendex for 1969-2017: ((({Tall buildings} WN CV) AND ({Earthquake resistance*} WN CV) AND ({Structural design} WN CV)))

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Author

- Humar, J. L. (3)
- Rahgozar, M. A. (3)
- Lew, Marshall (2)
- Kasahara, Yasuhiro (2)
- Kitamura, Haruyuki (2)

[View more](#)

Author affiliation

- Univ Of California (4)
- Div Of Law Engineering And Environmental Services, Inc (2)
- Imperial Coll (2)
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1. **Seismic Upgrade of Existing Buildings with Fluid Viscous Dampers: Design Methodologies and Case Study**

Guo, Tong (Key Laboratory of Concrete and Prestressed Concrete Structures, Ministry of Education, Southeast Univ., Nanjing, China); Xu, Jia; Xu, Weijie; Di, Zhiqiang **Source:** *Journal of Performance of Constructed Facilities*, v 29, n 6, December 1, 2015

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2. **Higher mode effects on the seismic responses of high-rise core-wall buildings**

Wornitchai, P. (School of Engineering and Technology, Asian Institute of Technology, Thailand); Munir, A. **Source:** *Proceedings of the 13th East Asia-Pacific Conference on Structural Engineering and Construction, EASEC 2013, 2013, Proceedings of the 13th East Asia-Pacific Conference on Structural Engineering and Construction, EASEC 2013*

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3. **Low frequency vibration control of the offshore fixed platforms by using tuned liquid column damper**

Lee, Chan Hui (Advanced Technology Institute, R and D Division, Hyundai Heavy Industries, Co. Ltd., Ulsan, Korea, Republic of); Kim, Heui Won; Joo, Won Ho **Source:** *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE*, v 4B, 2014

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4. **Seismic behaviour and earthquake resistant design of long period structures**

Astaneh-Asl, A. (University of California, Berkeley, CA, United States) **Source:** *Research and Applications in Structural Engineering, Mechanics and Computation - Proceedings of the 5th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2013*, p 211-216, 2013, *Research and Applications in Structural Engineering, Mechanics and Computation - Proceedings of the 5th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2013*

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5. **Performance-based plastic design of earthquake resistant tall building frames**

Liao, W.-C. (National Taiwan University, Taipei, Taiwan); Bayat, M.R.; Goel, S.C. **Source:** *Research and Applications in Structural Engineering, Mechanics and Computation - Proceedings of the 5th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2013*, p 675-680, 2013, *Research and Applications in Structural Engineering, Mechanics and Computation - Proceedings of the 5th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2013*

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6. **Comparison of Azerbaijan and other seismic codes**

Zeynalov, L. (Azerbaijan University of Architecture and Construction, Azerbaijan); Polukhov, I.; Göllalms, M. **Source:** *WIT Transactions on the Built Environment*, v 132, p 205-217, 2013, *Earthquake Resistant Engineering Structures IX*

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7. **The 2011 off the Pacific coast of Tohoku earthquake and response of high-rise buildings under long-period ground motions**

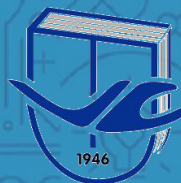
Takekawa, I. (Department of Architecture and Architectural Engineering, Kyoto University, Kyotodaigaku-Katsura, Nishikyo-ku, Kyoto 615-8540, Japan); Murakami, S.; Fujita, K.; Yoshitomi, S.; Tsuji, M. **Source:** *Soil Dynamics and Earthquake Engineering*, v 31, n 11, p 1511-1528, November 2011

02

PART ONE

● 检索方法

- 快速检索
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- Thesaurus(叙词)检索
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作者“李国”：

表 1 Ei 数据库中可能出现的作者拼写形式

作者姓名	拼写形式
李国	{LI, GUO}
	{GUO, LI}
	{LI, G.}
	{GUO, L.}

作者：李国华

作者 “李国华”

{Li, GuoHua}

{Li, Guo-Hua}

{Li, G.H.}

{Li. G. -H.}

{Li, Guo Hua=Li, Guo-Hua}

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Affiliation/Assignee (c, i, n, pc, cm, el, ep, g, f, u, e)	AF	Major term with no role (el, ep)	CVMN
All fields (c, i, n, pc, cm, cb, el, g, f, u, e)	ALL	Material identity number (i)	MI
Astronomical indexing (i)	AI	Monitoring agency (n)	AG
Author/Inventor (c, i, n, pc, el, ep, g, f, u, e, pa)	AU	Notes (n)	NT
Availability (n, cb, f)	AV	Numerical indexing (i)	NI
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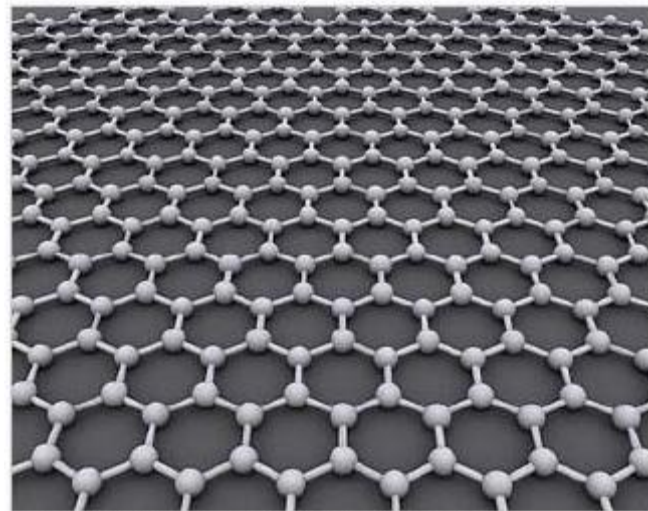
PART ONE

- 检索结果分析及输出管理
 - 分析
 - 输出管理

检索实例--石墨烯的相关研究

石墨烯（**Graphene**），又称单层石墨，是一种由碳原子以 sp^2 混成轨道组成六角型呈蜂巢晶格的平面薄膜，只有一个碳原子厚度的二维材料。

石墨烯不仅是已知材料中最薄的一种，还非常牢固坚硬；作为单质，它在室温下传递电子的速度比已知导体都快。石墨烯可以应用于晶体管、触摸屏、基因测序等领域，同时有望帮助物理学家在量子物理学研究领域取得新突破。2010年，英国曼彻斯特大学物理学家安德烈·海姆和康斯坦丁·诺沃肖洛夫因为“在二维石墨烯材料的开创性实验”而共同获得了当年的Nobel物理学奖。



石墨烯由碳原子形成的原子尺寸蜂巢晶格结构。



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- Yamanaka, Naoaki (17)
- Wong, William (7)
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- Wang, Wei (161)
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Alfano, Brigida (ENEA C.R. Portici, P.le E. Fermi 1, Portici; Naples; I-80055, Italy); Polichetti, Tiziana; Miglietta, Maria Lucia; Massera, Ettore; Schiattarella, Chiara; Ricciardella, Filiberto; Di Francia, Girolamo **Source:** *Sensors and Actuators, B: Chemical*, v 239, p 1144-1152, February 1, 2017

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2. Printed organo-functionalized graphene for biosensing applications

Wisitsoraat, A. (National Electronics and Computer Technology Center, National Science and Technology Development Agency (NSTDA), 112 Thailand Science Park, Phahon Yothin Rd., Klong 1, Klong Luang; Pathumthani; 12120, Thailand); Mensing, J. Ph.; Karuwan, C.; Sriprachuabwong, C.; Jaruwongrungrong, K.; Phokharatkul, D.; Daniels, T.M.; Liewhiran, C.; Tuantranont, A. **Source:** *Biosensors and Bioelectronics*, v 87, p 7-17, January 15, 2017

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3. Direct measurement of the amount of dissociated hydrogen atoms attached on graphene

Shin, Dong Seok (Department of Physics, Incheon National University, Incheon, Korea, Republic of); Kim, Young Bum; Kim, Do Yoon; Choi, Tae Hoon; Kim, Byung Hoon **Source:** *Synthetic Metals*, v 200, p 80-84, February 2015

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4. Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices

Hu, Ping (State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan, China); Yan, Mengyu; Wang, Xuanpeng; Han, Chunhua; He, Liang; Wei, Xiujian; Niu, Chaojiang; Zhao, Kangning; Tian, Xiaocong; Wei, Qitlong; Li, Zijia; Mai, Liqiang **Source:** *Nano Letters*, v 16, n 3, p 1523-1529, March 9, 2016

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5. The tuning of light-matter coupling and dichroism in graphene for enhanced absorption: Implications for graphene-based optical absorption devices

Rakheja, Shaloo (Electrical and Computer Engineering, New York University, New York, NY, United States); Sengupta, Parijat **Source:** *Journal of Physics D: Applied Physics*, v 49, n 11, February 11, 2016

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 Pálinskás, András (Institute of Technical Physics and Materials Science (MFA), Centre for Energy Research, HAS, P.O. Box 49, Budapest; 1525, Hungary); Molnár, György; Hwang, Chanyong; Biró, László Péter; Osváth, Zoltán **Source:** *RSC Advances*, v 6, n 89, p 86253-86258, 2016
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10. **Graphene transfer methods for the fabrication of membrane-based NEMS devices**
 Wagner, S. (University of Siegen, Department of Electrical Engineering and Computer Science, Hölderlinstr. 3, Siegen, Germany); Weisenstein, C.; Smith, A.D.; Östling, M.; Kataria, S.; Lemme, M.C. **Source:** *Microelectronic Engineering*, v 159, p 108-113, June 15, 2016
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11. **Theoretical Studies of Oxygen Reactivity of Free-Standing and Supported Boron-Doped Graphene**
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12. **Graphene-based devices: A platform for high frequency applications?**
 Grande, M. (Dipartimento di Ingegneria Elettrica e dell'Informazione, Politecnico di Bari, Via Re David 200, Bari; 70125, Italy); Bianco, G.V.; Vincenti, M.A.; De Ceglia, D.; Capezzuto, P.; Petruzzelli, V.; Scalora, M.; Bruno, G.; D'Orazio, A. **Source:** *International Conference on Transparent Optical Networks*, v 2016-August, August 23, 2016, *2016 18th International Conference on Transparent Optical Networks, ICTON 2016*

分析

Controlled vocabulary   




- Graphene (52827)
- Nanocomposites (6013)
- Electrodes (5320)
- Scanning Electron Microscopy (4821)
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Author   




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
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

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

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
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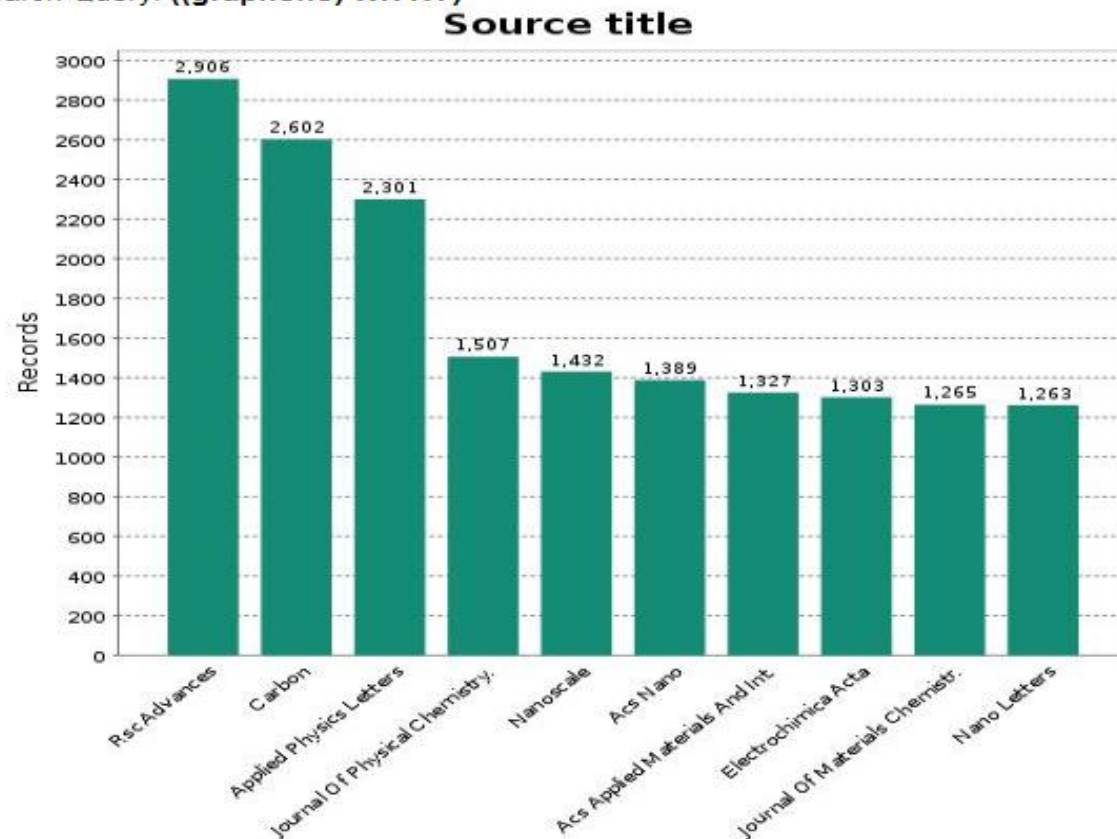
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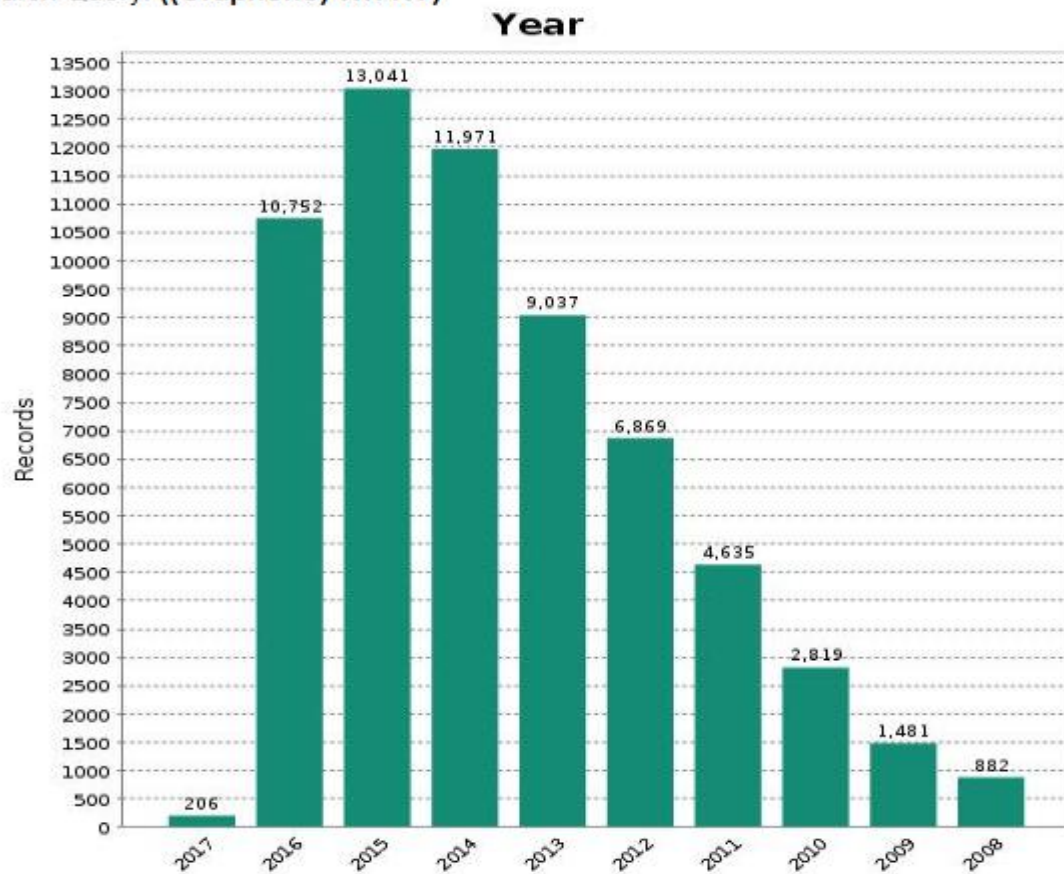


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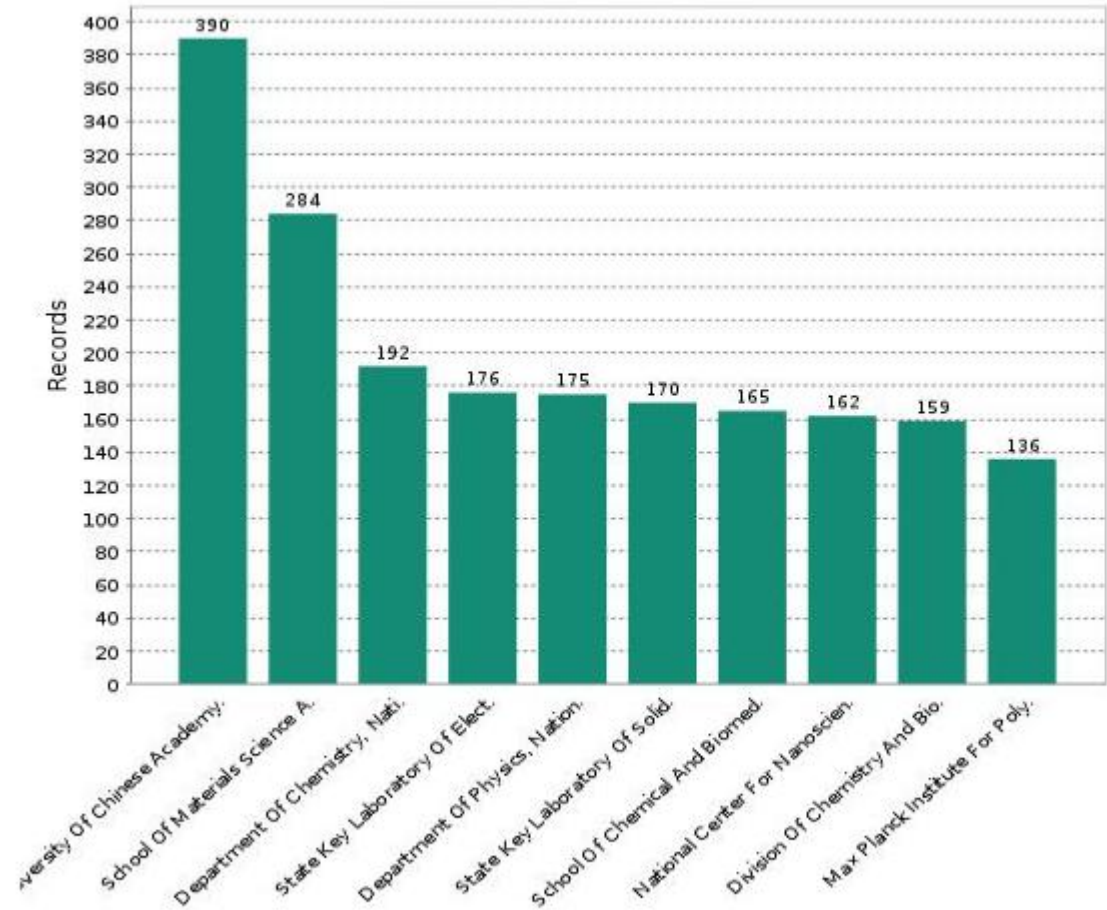
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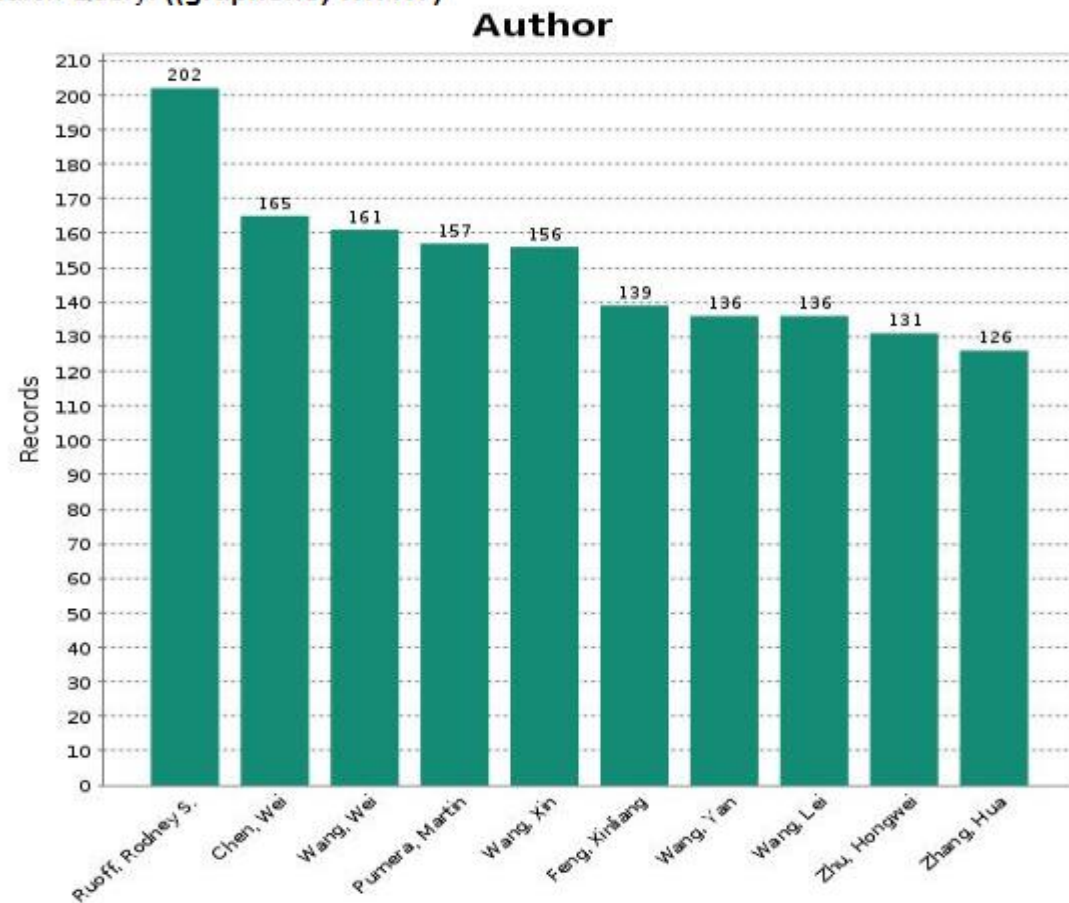


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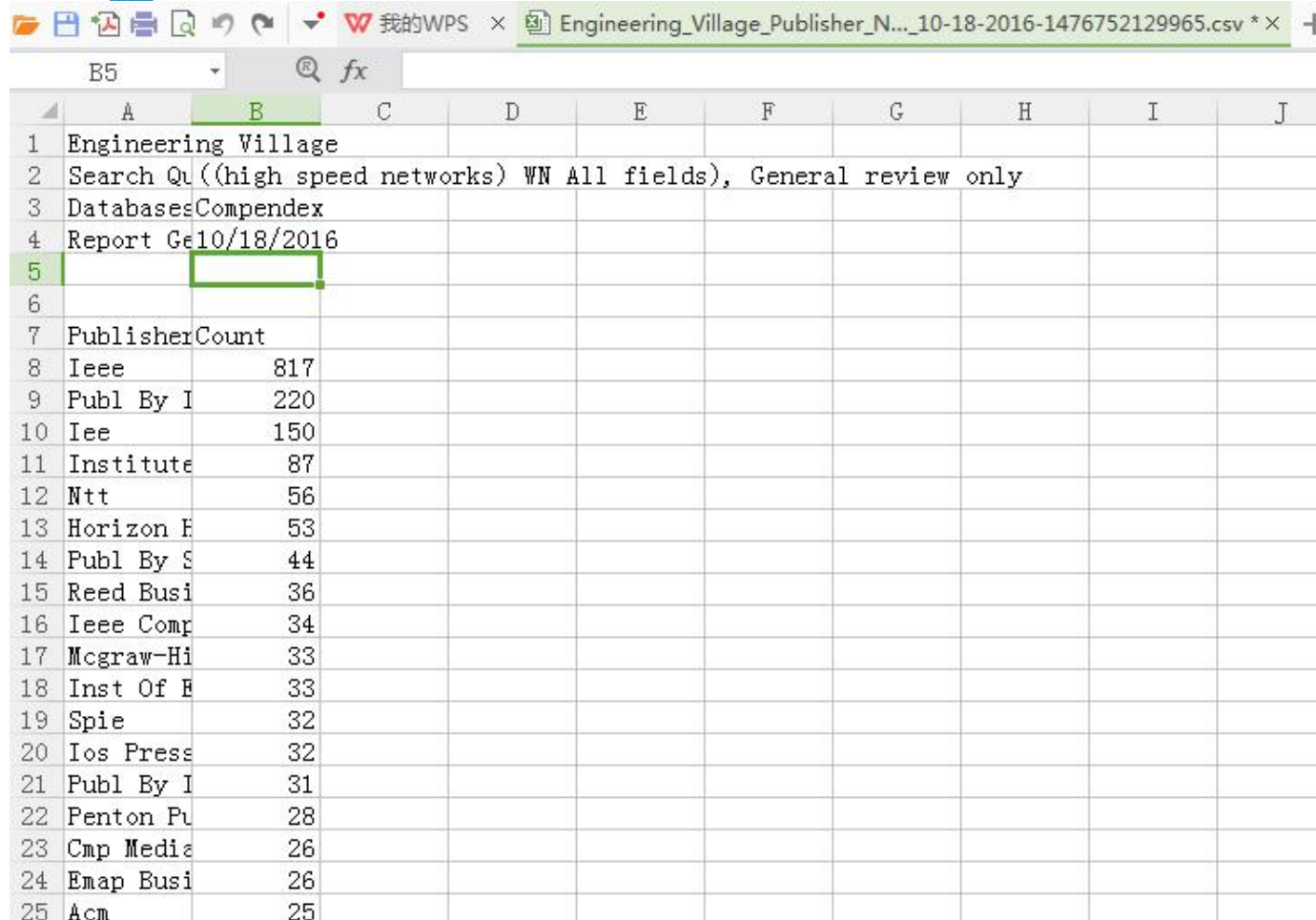
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03

PART ONE

● 检索结果分析及输出管理

● 分析

● 输出管理

检索结果输出与管理

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6. Design parameter sensitivity analysis of high-speed motorized spindle systems considering high-speed effects

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7. High-speed motorized spindle decoupling optimization control

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1. Vehicle system design process for a series-parallel plug-in hybrid electric vehicle

Manning, P. Christopher (Virginia Tech., United States); White, Eli; Alley, R. Jesse; King, Jonathan; Nelson, Douglas J. **Source:** *SAE Technical Papers*, v 9, 2012, SAE 2012 International Powertrains, Fuels and Lubricants Meeting, FFL 2012

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2. Online learning control for hybrid electric vehicle

Li, Weimin (Department of Automation, Shanghai Jiaotong University, Shanghai 200240, China); Xu, Guoqing; Xu, Yangsheng **Source:** *Chinese Journal of Mechanical Engineering (English Edition)*, v 25, n 1, p 98-106, January 2012

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3. Design and development process for a range extended split parallel hybrid electric vehicle

Gantt, Lynn R. (Virginia Tech., Blacksburg, VA, United States); Walsh, Patrick M.; Nelson, Douglas J. **Source:** *Proceedings of the ASME Design Engineering Technical Conference, v 4, p 205-218, 2010, ASME 2010 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE2010*

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Abstract

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1. Vehicle system design process for a series-parallel plug-in hybrid electric vehicleManning, P. Christopher¹; White, Eli¹; Alley, R. Jesse¹; King, Jonathan¹; Nelson, Douglas J.¹**Source:** SAE Technical Papers, v 9, 2012, SAE 2012 International Powertrains, Fuels and Lubricants Meeting, FFL 2012, DOI: 10.4271/2012-01-1774; **Conference:** SAE 2012 International Powertrains, Fuels and Lubricants Meeting, FFL 2012, September 18, 2012 - September 20, 2012; **Publisher:** SAE International**Author affiliation:**¹ Virginia Tech., United States**Abstract:**

The **Hybrid Electric Vehicle** Team of Virginia Tech is one of 15 schools across the United States and Canada currently competing in EcoCAR 2: Plugging In to the Future. EcoCAR 2 is a three year competition that mimics GM's **Vehicle** Development Process (VDP): design, build, then refine. The first step in the design process is the selection of a powertrain architecture. In the architecture selection process, HEVT considered three options: a **Battery Electric Vehicle** (BEV), a **Series Plug-in Hybrid Electric Vehicle** (PHEV), and a **Series-Parallel PHEV**. The team chose the **Series-Parallel PHEV** based on powertrain modeling and simulation and CAD packaging analysis. Next, the team looked at a variety of component combinations and selected the one that offered the best capacity to meet competition and team goals. These components are then packaged in the CAD model to plan for component integration. As this integration was happening, a control system was also being developed. A **Hybrid Vehicle** Supervisory Controller (HVSC) will be added to the **vehicle** along with the other **hybrid** components. This controller handles high level tasks and communicates with production component control modules to effectively, efficiently, and safely control the **vehicle**. The algorithm implemented on the HVSC simultaneously compares all possible powertrain operating and selects the most efficient mode of operation. In addition to component packaging and control system development, one more task completed during year 1 is the design of the Energy Storage System (ESS). This system houses the High Voltage (HV) battery pack and is responsible for distribution of HV power to **electric** components in the **vehicle**. This work includes thermal modeling and analysis of the battery pack and any wiring needed for power as well as structural analysis of the enclosure. Overall, HEVT has nearly completed design of a **Series-Parallel PHEV** that meets or exceeds all of the EcoCAR 2 competition requirements. Years 2 and 3 will be spent integrating this design into a working prototype. Copyright © 2012 SAE International.(9 refs)

Main heading: Computer aided design**Controlled terms:** Computer simulation - Control systems - Controllers - **Electric vehicles** - **Hybrid vehicles** - Powertrains**Uncontrolled terms:** Architecture selection - **Battery electric vehicles** - Energy storage systems - **Plug-in Hybrid Electric Vehicle** - **Plugin hybrid electric vehicles** (PHEV) - Production components - Supervisory controllers - **Vehicle** development process**Classification Code:** 432 Highway Transportation - 663.2 Heavy Duty Motor Vehicle Components - 723.5 Computer Applications - 731.1 Control Systems - 732.1 Control Equipment**Database:** Compendex**Full-text and Local Holdings Links**

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1. Vehicle system design process for a series-parallel plug-in hybrid electric vehicle

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Li, Weimin (Department of Automation, Shanghai Jiaotong University, Shanghai 200240, China); Xu, Guoqing; Xu, Yangsheng Source: *Chinese Journal of Mechanical Engineering (English Edition)*, v 25, n 1, p 98-106, January 2012

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1.

Accession number: 20131216131343

Title: **Vehicle system design process for a series-parallel plug-in hybrid electric vehicle**

Authors: Manning, P. Christopher¹; White, Eli¹; Alley, R. Jesse¹; King, Jonathan¹; Nelson, Douglas J.¹

Author affiliation: ¹ Virginia Tech., United States

Corresponding author: Manning, P.C.

Source title: SAE Technical Papers

Abbreviated source title: SAE Techni. Paper.

Volume: 9

Monograph title: SAE 2012 International Powertrains, Fuels and Lubricants Meeting, FFL 2012

Issue date: 2012

Publication year: 2012

Language: English

Document type: Conference article (CA)

Conference name: SAE 2012 International Powertrains, Fuels and Lubricants Meeting, FFL 2012

Conference date: September 18, 2012 - September 20, 2012

Conference location: Malmo, Sweden

Conference code: 96082

Publisher: SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, United States

Abstract: The **Hybrid Electric Vehicle** Team of Virginia Tech is one of 15 schools across the United States and Canada currently competing in EcoCAR 2: Plugging In to the Future. EcoCAR 2 is a three year competition that mimics GM's **Vehicle** Development Process (VDP): design, build, then refine. The first step in the design process is the selection of a powertrain architecture. In the architecture selection process, HEVT considered three options: a Battery **Electric Vehicle** (BEV), a Series Plug-in **Hybrid Electric Vehicle** (PHEV), and a Series-Parallel PHEV. The team chose the Series-Parallel PHEV based on powertrain modeling and simulation and CAD packaging analysis. Next, the team looked at a variety of component combinations and selected the one that offered the best capacity to meet competition and team goals. These components are then packaged in the CAD model to plan for component integration. As this integration was happening, a control system was also being developed. A **Hybrid Vehicle** Supervisory Controller (HVSC) will be added to the **vehicle** along with the other **hybrid** components. This controller handles high level tasks and communicates with production component control modules to effectively, efficiently, and safely control the **vehicle**. The algorithm implemented on the HVSC simultaneously compares all possible powertrain operating and selects the most efficient mode of operation. In addition to component packaging and control system development, one more task completed during year 1 is the design of the Energy Storage System (ESS). This system houses the High Voltage (HV) battery pack and is responsible for distribution of HV power to **electric** components in the **vehicle**. This work includes thermal modeling and analysis of the battery pack and any wiring needed for power as well as structural analysis of the enclosure. Overall, HEVT has nearly completed design of a Series-Parallel PHEV that meets or exceeds all of the EcoCAR 2 competition requirements. Years 2 and 3 will be spent integrating this design into a working prototype. Copyright © 2012 SAE International.

Number of references: 9

Main heading: [Computer aided design](#)

Controlled terms: [Computer simulation](#) - [Control systems](#) - [Controllers](#) - [Electric vehicles](#) - [Hybrid vehicles](#) - [Powertrains](#)

Uncontrolled terms: [Architecture selection](#) - [Battery electric vehicles](#) - [Energy storage systems](#) - [Plug-In Hybrid Electric Vehicle](#) - [Plugin hybrid electric vehicles \(PHEV\)](#) - [Production components](#) - [Supervisory controllers](#) - [Vehicle development process](#)

Classification code: [432 Highway Transportation](#) - [663.2 Heavy Duty Motor Vehicle Components](#) - [723.5 Computer Applications](#) - [731.1 Control Systems](#) - [732.1 Control Equipment](#)

DOI: 10.4271/2012-01-1774

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PART ONE

个性化定制

个性化服务

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设置提醒服务，做定题跟踪

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- Doblare, M. (30)
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1. Simulation of bone aging and virtual reality visualization of cancellous bone structure

Sonar, Ajay V. (Department of Electrical and Computer Engineering, Clarkson University, Box 5720, Potsdam, NY 13699-5720); Carroll, James J.; Sabini, Lisa; Issen, Kathleen A. Source: Canadian Conference on Electrical and Computer Engineering, p 1317-1322, 2008, IEEE Canadian Conference on Electrical and Computer Engineering, Proceedings, COECE 2008

Database: Compendex

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2. Simulating the trabecular bone structure around dental implants: A case presentation

Hasan, Istabrak (Rheinische Friedrich-Wilhelms University, Welschonnenstrasse 17, 53111 Bonn, Germany); Heinemann, Friedhelm; Keilig, Ludger; Bouraoui, Christoph Source: Biomedizinische Technik, v 57, n 1, p 17-19, February 2012

Database: Compendex

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3. A simulation study of artificial bone scaffolds based on multi-physics coupling model

Wang, Yanen (Sino-Britain Bionic Rapid Manufacture Research Center, School of Mechatronics, Northwestern Polytechnical University, Xi'an 710072, China); Wei, Shengmin; Xiao, Zhengkang; Yan, Xiutian Source: Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University, v 27, n 3, p 362-367, June 2009 Language: Chinese

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4. Methodology for numerical simulation of trabecular bone structures mechanical behavior

Argenta, M.A. (PPGMNE, UFPR, Polytechnic Center - CESEC, Curitiba, Parana, Brazil); Gebert, A.P.; Filho, E.S.; Felizari, B.A.; Hecke, M.B. Source: CMES - Computer Modeling in Engineering and Sciences, v 79, n 3-4, p 159-182, 2011

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5. Simulation on tissue differentiations for different architecture designs in bone tissue engineering scaffold based on cellular structure model

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- Dynamics modeling and simulation analysis for wood high-speed motorized spindle**
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- Rigidity reliability analysis of high-speed motorized spindle based on RSM**
He, Xuehong (School of Mechanical Engineering and Automation, Northeast University, Shenyang, China); Jiang, Yanshou; Zhu, Mengbing; Li, Jia **Source:** *Proceedings - 18th ISSAT International Conference on Reliability and Quality in Design*, p 232-237, 2012, *Proceedings - 18th ISSAT International Conference on Reliability and Quality in Design*
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- Thermal deformation analysis of high-speed motorized spindle**
Yu, Shenbo (School of Mechanical Engineering, Shenyang University of Technology, Shenyang, China); Xiao, Feng Yi **Source:** *Lecture Notes in Electrical Engineering*, v 139 LNEE, p 511-517, 2012, *Advances in Electronic Engineering, Communication and Management Vol. 1 - Proceedings of 2011 International Conference on Electronic Engineering, Communication and Management, EECM 2011*
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- Electromechanical coupled dynamical modeling of high speed motorized spindle's motor-spindle subsystem**
Meng, Jie (State Key Laboratory of Mechanical Transmission, Chongqing University, Chongqing 400044, China); Chen, Xiaolan; He, Ye **Source:** *Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering*, v 43, n 12, p 160-165, December 2007 **Language:** Chinese
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- Effects of different control strategies on dynamic performance of a high-speed motorized spindle**
Shan, Wen-Tao (State Key Laboratory of Mechanical Transmission, Chongqing University, Chongqing 400044, China); Chen, Xiao-An; He, Ye **Source:** *Zhendong yu Chongji/Journal of Vibration and Shock*, v 32, n 18, p 75-80, September 28, 2013 **Language:** Chinese
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Niu, Xiamu (Harbin Inst of Technology, Harbin, China); Lu, Zheming; Sun, Shenghe **Source:** *Tien Tzu Hsueh Pao/Acta Electronica Sinica*, v 28, n 8, p 1-4, Aug 2000 **Language:** Chinese
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05

PART ONE

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Zhang, Lei (38)

Hu, Liang (38)

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1. Estimation of Li-ion battery State of Charge based on extended Kalman filtering

Ma, Yan (State Key Laboratory of Automotive Simulation and Control, Jilin University, China); Bai, Qingwe; Liang, Lian; Chen, Hon Source: Chinese Control Conference, CCC, p 6815-6819, 2012, Proceedings of the 31st Chinese Control Conference, CCC 2012 Language: Chinese

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2. Research on the system of algae concentration fluorescence measurement

Wang, Kaijiang (Polytechnic Engineering, Qiongzhou University, Sanya, China); Yin, Wenjia; Li, Yu; Xu, Yuanze Source: Proceedings - 2012 5th International Symposium on Computational Intelligence and Design, ISCID 2012, v 1, p 523-526, 2012, Proceedings - 2012 5th International Symposium on Computational Intelligence and Design, ISCID 2012

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3. Upconversion luminescence of Eu³⁺ in NaYbF₄:Tm³⁺, Eu³⁺ nanocrystals induced by 980 nm excitation

Liu, Ye (State Key Laboratory on Integrated Optoelectronics, College of Electronic Science and Engineering, Jilin University, Changchun 130012, China); Yu, Fang-Da; Liu, Shu-Sen; Zhao, Dan; He, Chun-Feng; Zheng, Ke-Zhi; Qin, Wei-Ping Source: Faguang Xuebao/Chinese Journal of Luminescence, v 33, n 5, p 476-480, May 2012 Language: Chinese

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- Liu, Cai (3)
- Lu, Weiping (3)
- Deng, Shiqiao (1)
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Database: Compendex
[Abstract](#) | [Detailed](#) | [Cited by in Scopus \(1\)](#)
- Property tests of nano-indentation on femur cuticle of dung beetle
Sun, Jiyu; Tong, Jin; Yan, Jiulin; Han, Zhiwu; Ren, Luquan Source: *Nongye Jixie Xuebao/Transactions of the Chinese Society of Agricultural Machinery*, v 35, n 5, p 157-160+169, September 2004
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- Study on phenomenon of negative air pressure of cavity in interfacial medium with tensile test
Deng, Shiqiao; Ren, Luquan; Han, Zhiwu Source: *Nongye Jixie Xuebao/Transactions of the Chinese Society of Agricultural Machinery*, v 35, n 5, p 165-169, September 2004
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Han, Zhiwu (Res. Inst. for Agric. Machinery Eng., Jilin Univ., Changchun 130025, China); Liu, Cai; Lu, Weiping; Ren, Luquan Source: *Journal of Materials Science and Technology*, v 17, n 4, p 474-478, July 2001
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- Integrated system of numerical simulation and roll pass CAD for cold roll forming
Han, Zhiwu (Jilin Univ., Changchun 130025, China); Ren, Luquan; Liu, Cai; Lu, Weiping Source: *Kang Tieh/Iron and Steel (Peking)*, v 36, n 7, p 30-33, July 2001
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- Bio-inspired micro-nano structured surface with structural color and anisotropic wettability on Cu substrate**
Liu, Yan (Key Laboratory of Bionic Engineering, Ministry of Education, Jilin University, Changchun, China); Li, Shuyi; Niu, Shichao; Cao, Xiaowen; Han, Zhiwu; Ren, Luquan **Source:** *Applied Surface Science*, v 379, p 230-237, August 30, 2016

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[Li, Bo](#) (Energy and Sustainability Research Division, Faculty of Engineering, University of Nottingham, Nottingham, NG7 2RD, United Kingdom); [Zhou, Wenning](#); [Yan, Yuying](#); [Han, Zhiwu](#); [Ren, Luquan](#) **Source:** *Journal of Bionic Engineering*, v 10, n 1, p 90-99, January 2013
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2. **Thickness-averaged model for numerical simulation of electrosmotic flow in three-dimensional microfluidic chips**
[Chen, Bo](#) (School of Civil Engineering and Mechanics, Huazhong University of Science and Technology, Wuhan, 430074, China); [Chen, Han](#); [Wu, Jian-kang](#) **Source:** *Applied Mathematics and Mechanics (English Edition)*, p 1-12, 2013
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2. Factors influencing inverse bulging effect in sheet hydroforming

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3. Preliminary study of habitat and its bionics

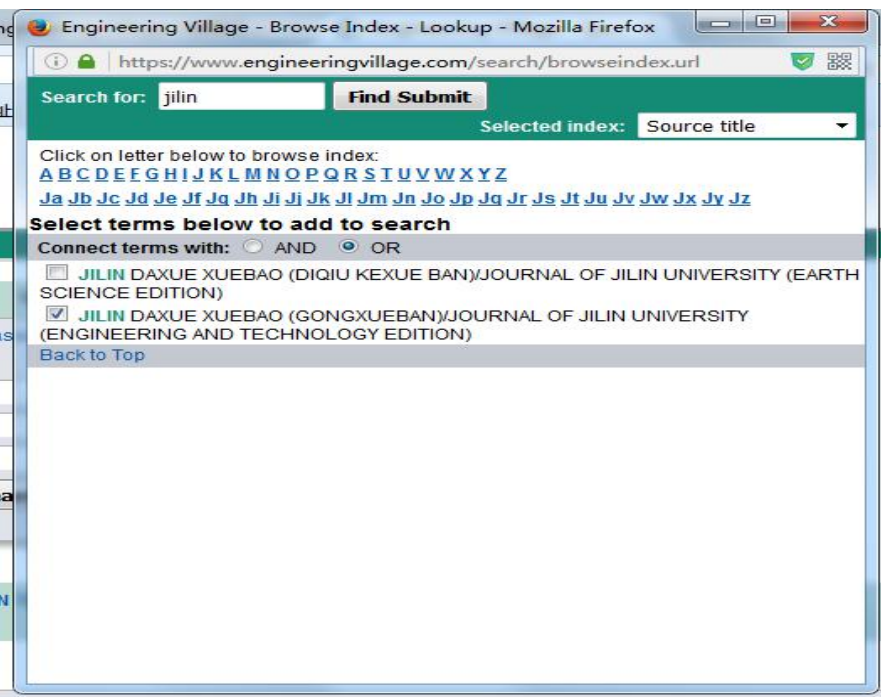
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汽车总线

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本词条由“科普中国”百科科学词条编写与应用工作项目 审核。

汽车总线（automotive bus）随着汽车各系统的控制逐步向自动化和智能化转变，汽车电气系统变得日益复杂，传统的电气系统大多采用点对点的单一通信方式，相互之间少有联系，这样必然会形成庞大的布线系统。据统计，一辆采用传统布线方法的高档汽车中，其导线长度可达2000米，电气节点可达15 00个，而且该数字大约每10年就将增加1倍。这进一步加剧了粗大的线缆与汽车上有限的可用空间之间的矛盾。无论从材料成本还是工作效率看，传统布线方法都不能适应现代汽车的发展。另外，为了满足各电子系统的实时性要求，须对汽车公共数据（如发动机转速、车轮转速、节气门踏板位置等信息）实行共享，而每个控制单元对实时性的要求又各不相同。因此，传统的电气网络已无法适应现代汽车电子系统的发展，于是新型汽车总线技术应运而生。

中文名	汽车总线	种 类	CAN总线，LIN总线，VAN总线
外文名	automotive bus	别 名	汽车总线技术
技 术	采用总线控制	作 用	控制及安全保证系统以及仪表报警
		总线系统	动力系统总线

目录	1 种类	2 新型专用总线
	<ul style="list-style-type: none">A类总线B类总线C类总线	<ul style="list-style-type: none">D类总线3 新型专用总线

种类

目前汽车上普遍采用的汽车总线有局部互联协议LIN和控制器局域网CAN，正在发展中的汽车总线技术还有高速容错网络协议FlexRay、用于汽车多媒体和导航的MOST以及与计算机网络兼容的蓝牙、无线局域网等无线网络技术。

LIN是一种低成本的单行通讯网络协议，采用单个控制器多个从设备的模式，在主机从设备之间只需要1根电压为12伏的信号线。这种主要面向“传感器/执行器控制”的低速网络，其最高传输速率可达20千比特秒，主要应用于电动门窗、座椅调节、灯光照明等控制。典型的LIN网络的节点数可以达到12个。以门窗控制为例，在车门上有门锁、车窗玻璃开关、车窗升降电机、操作按钮等，只需要1个LIN网络就可以把它们连为一体。而通过CAN网关，LIN网络还可以和汽车其他系统进行信息交换，实现更丰富的功能。目前LIN已经成为国际标准，被大多数汽车制造商和零部件生产商所接受。

在当前的汽车总线网络市场上，占据主导地位的是CAN总线，CAN总线是德国博世有限责任公司在20世纪80年代初为了解决现代汽车中众多的控制与测试仪器之间的数据交换问题而开发的一种串行数据通讯协议。它的短帧数据结构、非破坏性总线特性截技术及灵活的通讯方式适应了汽车的实时性和可靠性要求。

SAE分类总线

目前，绝大多数车用总线都被SAE（美国汽车工程师协会）下属的汽车网络委员会按照协议特性分为A、B、C、D四类。

A类总线

面向传感器或执行器管理的低速网络，它的位传输速率通常小于 20kb/s。

A类总线以LIN（Local Interconnect Network 本地互联网）规范最有前途，其由摩托罗拉（Motorola）与奥迪（Audi）等知名企业联手推出的一种新型低成本的低速串行通讯协议，主要用于车内分布式电控系统，尤其是面向智能传感器或执行器的数字化通讯场合。

B类总线

面向独立控制模块间信息共享的中速网络，位速一般在10~125 kb/s之间。

B类总线以CAN（Controller Area Network 控制器局域网）最为著名。CAN网络最初是BOSCH公司为欧洲汽车市场所开发的、只用于汽车内部测量和执行部件间的数据通讯，逐渐的发展完善技术和功能。1993年ISO正式颁布了道路交通运输工具—数字信息交换—高速通讯控制器局域网(CAN)国际标准(ISO 11898-1)。近几年低速容错 CAN的标准ISO 11519-2 也开始在欧洲的一些车型中得到广泛的应用。B类总线主要应用于车身电子的舒适型模块和显示仪表等设备中。

C类总线

面向闭环实时控制的多路传输高速网络，位速率多在125kb/s～1Mb/s 之间。

C类总线主要用于车上动力系统中对通讯的实时性要求比较高的场合，主要服务于动力传递系统。在欧洲，汽车厂商大多使用“高速CAN”作为C类总线，它实际上就是ISO 11898-1 中位速率高于125kb/s的那部分标准。美国则在卡车级其拖车、课程、建筑机械和农业动力设备中大量使用专门的通讯协议 SAEJ1939。

D类总线

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Abstract:

In accordance with the fact that traffic accidents usually happened in dim night or in the case of sudden change of lighting, this paper presents a design of adaptive automotive headlights system based on CAN/LIN network. This system can effectively broaden the driver's field of view and improve driving comfort. The system adopts CAN/LIN bus for communication, captures automobile steering wheel angle, automobile body's tilt angle, external ambient light illuminance and switching signal and then sends them to the corresponding control nodes to control headlights after being processed. While the automobile turns, the system can control the headlights left-right servo, While the automobile is uphill or downhill, the system can control the headlights pitch servo, While automobile get in and out of the special path such as tunnel, culvert, the system can control headlights automatic tuning-on and turning-off during the day

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7. Design and research on air conditioning control network of electric vehicle based on CAN-bus

Xin, Fan (School of Automobile and Traffic Engineering, Jiangsu University, Zhenjiang Jiangsu, 212013, China); Chun, Hu **Source:** 2010 International Conference on Measuring Technology and Mechatronics Automation, ICMTMA 2010, v 1, p 970-973, 2010, 2010 International Conference on Measuring Technology and Mechatronics Automation, ICMTMA 2010

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