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- 每年新增**500000**项记录；
- 每周更新；
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- 通用工程
- 土木工程
- 机械工程
- 电气工程
- 化学工程
- 原料
- 能源

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Compendex详细记录

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Search Results | New Search

Abstract | Detailed Record | **Full-text**

Record 1 from Compendex for: vibration reduction, 1884-2006

Check record to add to Selected Records

☐ 1. **Accession number:** 02467203659

Title: The application of ball-type balancers for radial vibration reduction

Authors: Huang, W.-Y.; Chao, C.-P.; Kang, J.-R.; Sung, C.-K.

First author affiliation: Department of Mechanical Engineering, Chung-Yuan Christian University, Chung-Li, 320, Taiwan

Serial title: Journal of Sound and Vibration

Abbreviated serial title: J Sound Vib

Volume: v 250

Issue: n 3

Issue date: Feb 21 2002

Publication year: 2002

Pages: p 415-430

Language: English

ISSN: 0022-460X

CODEN: JSVJAG

Document type: Journal article (JA)

Publisher: Academic Press

Abstract: This study is dedicated to the design of a ball-type balancer system installed on the high-speed disk drive in order to reduce radial vibrations of rotors caused by eccentricities of disk's center of gravity and circular runway of the ball balancer. The ball balancer is a promising candidate due to its low cost and capability to completely eliminate radial vibrations under the conditions that runway eccentricity, damping and friction are not present. A mathematical model was established first for the analysis of the dynamics of a rotor-balancer system. The influence of concerned parameters, e.g., runway eccentricity and rolling resistance, on residual vibrations was then explored through solving the equations for steady state solutions. The results were used to evaluate the performance of balancers in terms of vibration reduction. The design guidelines for minimizing the vibrations by controlling the aforementioned concerned parameters were provided based on the parametric analysis conducted. Finally, experimental study was orchestrated and performed to verify the validity of the mathematical model and demonstrate balancer capability for reduction of radial vibrations.

全文链接

点击作者姓名, 搜索更多文章

30多种语言支持

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Compendex详细记录(续)

Abstract:

This study is dedicated to the design of a ball-type balancer system installed on the high-speed disk drive in order to reduce radial **vibrations** of rotors caused by eccentricities of disk's center of gravity. The balancer is a promising candidate due to its low cost and capability to completely eliminate radial **vibrations** at present. A mathematical model was established first for the analysis of the dynamic behavior of the balancer. Then, the residual **vibrations** was then explored through solving the equations for steady state solutions. The results were used to evaluate the performance of balancers in terms of **vibration reduction**. The design guidelines for minimizing the **vibrations** by controlling the aforementioned concerned parameters were provided based on the parametric analysis conducted. Finally, experimental study was orchestrated and performed to verify the validity of the mathematical model and demonstrate balancer capability.

文章内容摘要

主标题

标准索引词

Number of references: 15

Ei main heading: [Vibrations \(mechanical\)](#)

Ei controlled terms: [Balancing](#) | [Reduction](#) | [Optical devices](#) | [Disks \(machine components\)](#) | [Damping](#) | [Friction](#) | [Mathematical models](#) | [Equations of state](#) | [vibration control](#)

Uncontrolled terms: [Radial vibration reduction](#) | [Ball type balancers](#) | [High speed optic disk drives](#)

Ei classification codes: [931.1](#) Mechanics | [601.2](#) Machine Components | [802.2](#) Chemical Reactions | [741.3](#) Optical Properties of Gases, Liquids & Solids

Treatment: Applications (APP); Theoretical (THR)

DOI: 10.1006/jsvi.2001.3921

Database: Compendex

Compilation and indexing terms, © 2005 Elsevier Inc.

大量相关主题

资料来源中其它重要词句

数字对象标识

文章风格

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快速搜索

Ei Engineering Village 2

Compendex, Inspec, NTIS, US Patents & EP Patents

The combined Compendex®, Ei Backfile, Inspec®, Inspec Archive & NTIS™, Patents databases allows for searching on the broadest possible range of topics within the scientific, applied science, technical and engineering disciplines and includes patents, journal articles, proceedings, unclassified government reports, and more. Coverage is from 1884 to present. The databases are updated weekly.

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SELECT DATABASE

☐ All ☒ Compendex ☒ Inspec ☒ NTIS ☒ US Patents ☒ EP Patents

SEARCH FOR

AND

AND

SEARCH III

All fields

All fields

All fields

LIMIT BY

Document type not available

Treatment type not available

Discipline type not available

All languages

☒ 1884 TO 2006

☐ 1 Updates

SORT BY

☒ Relevance ☐ Publication year

☐ Autostemming off

Search Tips

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

选择数据库

上下文关联帮助

搜索关键词和相关领域

范围和分类选项

搜索提示

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高级搜索

Search History - Selected Records - My Profile - My Alerts **End Session**

Easy Search Search Ask an Expert Help

SELECT DATABASE
☐ All ☒ Compendex ☒ Inspec ☒ NTIS ☒ US

ENTER SEARCH TERMS BELOW

SEARCH FROM
☒ 1884 TO 2006
☐ 1 Updates ?

SORT BY
☒ Relevance ? ☐ Publication date
☒ Autostemming off

Search **Reset**

Browse Indexes ?
[Author/Inventor](#)
[Affiliation/Assignee](#)
[Controlled term](#)
[Language](#)
[Serial title](#)
[Publisher](#)
[Treatment type](#)
[Document type](#)
[Discipline](#)

Search Codes ?
C Compendex I Inspec N NTIS U US Patents E EP Patents

Field	Code	Field	Code	Field	Code
All fields (C, I, N, U, E)	ALL	Discipline (I)	DI	Patent application country (U, E)	PCO
Abstract (C, I, N, U, E)	AB	Document type (I)	DT	Priority code (U, E)	PAC
Accession number (C, I, N)	AN	Patent application (I)	AI	(E)	PEC
Astronomical indexing (I)	AI	ISBN (C, I)	IS	Publication date (U, E)	PFD
Author/Inventor (C, I, N, U, E)	AU	ISSN (C, I)	IS	Patent application number (U, E)	PAM
Affiliation/Assignee (C, I, N, U, E)	AF	Language (C, I, N)	LA	Patent attorney name (U, E)	PAN
Availability (N)	AV	Ei main heading (C)	MH	Publisher (C, I)	PN
Chemical indexing (I)	CI	Material identity number (I)	MI	Patent priority information (U, E)	PRN
Classification code (C, I, N)	CL	Monitoring agency (N)	AG	US classification (U)	PUC

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管理搜索结果

Results Manager

Select all on page | Select range: to | [Clear all on page](#) | [Clear all selections](#)

Choose format: ☒ Citation ☐ Abstract ☐ Detailed record ☒ Clear selected records as new search

[View Selections](#) [E-Mail](#) [Print](#) [Download](#) [Save to Folder](#)

Search Results 13505 records found in Compendex for 1884-2006 [Save Search](#) [Create Alert](#) [RSS](#) [Facebook](#)

Sort by: ☒ Relevance [Date](#) [Author](#) [Source](#) [Publisher](#)

Author

[Meiback, Peter S.](#) (54)

[Jordan, R. C.](#) (24)

[Silverman, L.](#) (18)

[Deshusses, Marc A.](#) (18)

[Chow, Judith C.](#) (17)

[Watson, John G.](#) (16)

[more...](#)

Full-text

全文链接

1. An air-filter sensor for home-used air conditioners
[Lin, Cheng Y.](#) (Department of Engineering Technology, Old Dominion University); [Crossman, Gary R.](#); [Verma, Alok K.](#) **Source:** *ASEE Annual Conference Proceedings. 2003 ASEE Annual Conference and Exposition: Staying in Tune with Engineering Education*, 2003, p 11312-11320
Database: Compendex
[Abstract](#) | [Detailed R](#)

2. Metals in ambient air: quality assurance scheme
[Tylee, Barry E.](#) (Health and Safety Laboratory); [Gower, Owen L.](#); [Pereira, Maria C.](#); [Vieira, Bruno](#); [Machado, Joao](#) **Source:** *Symposium on Air Quality Measurement Methods and Technology 2004, Symposium on Air Quality Measurement Methods and Technology 2004*, 2004, 71, p 441-459
Database: Compendex
[Abstract](#) | [Detailed Record](#)

3. Study on performance of photocatalyst plasma for air clean
[Shin, Soo-Yeon](#) (Digital Appl. Res. Lab., LG Electronics Co. Ltd.); [Hong, Young-Ki](#); [Lee, Sung-Hwa](#); [Park, Jeong-Ho](#); [Moon, Jae-Duk](#) **Source:** *Proceedings of the 2003 4th International Symposium on Heating, Ventilating and Air Conditioning, Proceedings of the 2003 - 4th International Symposium on Heating, Ventilating and Airconditioning*, 2003, p 37-43
Database: Compendex
[Abstract](#) | [Detailed Record](#)

4. Indoor air quality of an energy efficient, healthy house with mechanically induced fresh air

Air Pollution (1280)

[Filtration](#) (842)

[Mathematical Models](#) (689)

[Particles \(Particulate Matter\)](#) (619)

[Aerosols](#) (558)

[Air Pollution Control](#) (532)

[Filters](#) (529)

[Computer Simulation](#) (523)

[Algorithms](#) (435)

[more...](#)

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结果太多？

- 将词条限制在特定领域；
- 查看主题词表——改用更精确的词条；
- 仅限英语；
- 最近发表年份或最近更新日期；
- 具体文件类型；
- 具体使用类型；
- 关闭自动衍生功能；

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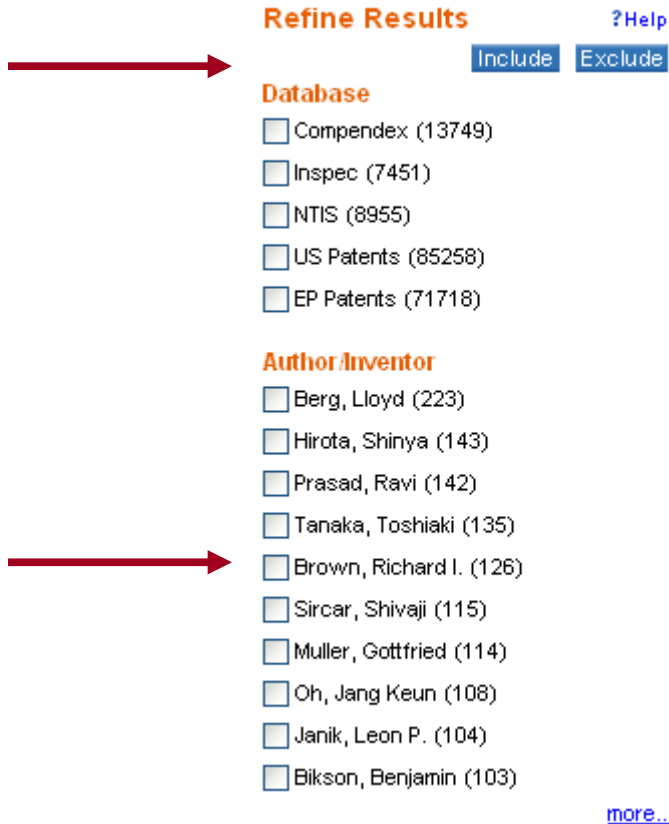
结果太多？

- 用截词要妥当；
 - **cat* → cat, catalyst, catapults, caterpillar**等；
- 使用合适的布尔运算式；
- 利用分网改进搜索。

快速、高级和主题词表分网搜索

从检索结果里使用包括（**include**）或排除（**exclude**）一个或多个关键词。

点击每个关键词旁的复选框，在分网或分网间结合一个以上的关键词。



Refine Results [? Help](#)

Database

- ☐ Compendex (13749)
- ☐ Inspec (7451)
- ☐ NTIS (8955)
- ☐ US Patents (85258)
- ☐ EP Patents (71718)

Author/Inventor

- ☐ Berg, Lloyd (223)
- ☐ Hirota, Shinya (143)
- ☐ Prasad, Ravi (142)
- ☐ Tanaka, Toshiaki (135)
- ☐ Brown, Richard I. (126)
- ☐ Sircar, Shivaji (115)
- ☐ Muller, Gottfried (114)
- ☐ Oh, Jang Keun (108)
- ☐ Janik, Leon P. (104)
- ☐ Bikson, Benjamin (103)

[more...](#)

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包括和排除词条

包括词条

Search Results 124 records found in Compendex for 1884-2005 [Save Search](#)
✖ [+\(\(acid\) WN All fields\)](#) ✖ [+\({Kricheldorf hans r} WN AU\) AND \({ja} WN DT\)](#)
Sort by: ▼ Relevance Date Author Source Publisher

初始关键词和被添加的词条间会出现“+”符号。

排除词条

Search Results 283483 records found in Compendex for 1884-2006 [Save Search](#) | [Create Alert](#)
✖ [+\(\(acid\) WN All fields\)](#) ✖ [-\({Kricheldorf hans r} WN AU\) AND \({ja} WN DT\)](#)
Sort by: ▼ Relevance Date Author Source Publisher

初始关键词和被排除的词条间会出现“-”符号。

搜索历史记录

Ei Engineering Village 2 Search History - Selected Records - My Profile - My Alerts [End Session](#)

[Easy Search](#) [Quick Search](#) [Expert Search](#) [Thesaurus](#) [eBook Search](#) [Ask an Expert](#) [Help](#)

[Search Results](#) [New Search](#)

Search History ?

No.	Type	Search	Autostem	Sort	Results	Year(s)	Database	E-mail Alert	Save Search
1.	Quick	((air filters) WN All fields)	On		Relevance	1874-1911 1880-1911	Compendex, Inspec, NTIS, US Patents & EP	☐	Save
2.	Expert	(((air filters) WN ALL)) AND ((cpx) WN DB))	On				ec, NTIS, US Patents & EP	☐	Save
3.	Quick	((mayback) WN AU)	On				ec, NTIS, US Patents & EP	☐	Save

[Clear Search History](#) [View Saved Searches](#)

Combine Previous Searches

ENTER SEARCHES TO COMBINE [?](#) **SORT BY** ☒ Relevance ☐ Publication year [Search](#) [Reset](#)

Combined Search

Combine searches listed in the Search History as follows:
(#1 AND #2)
(#1 AND #2) OR (#3 AND #4)
(#1 OR #3) NOT #2

Combine searches executed in the same database only.

单击搜索结果重新运行或修改

点击保存搜索结果 **

整合搜索号, 以便灵活查询

** 需要的个人帐户

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结果不够？

- 查看主题词表，采用含义更广的词条；
- 查看主题词表，看词条是否已发生变化；
- 工程信息主标题或分类码；
- 包括同义词；
- 浏览索引，查找作者的别名等；
- 包括所有领域；
- 打开自动衍生功能；

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结果不够？

- 利用截词*涵盖简单复数，不要忘了不规则形式；
- 使用“快餐”搜索查找好文章；然后扫描索引，查找主题标目；
- 使用合适的布尔连接器。

主题词表

Easy Search Quick Search Expert Search **Thesaurus** eBook Search Ask an Expert Help

SELECT DATABASE
☒ Compendex ☐ Inspec ?

ENTER TERM
air filters

☒ Search ☐ Exact Term ☐ Browse ? **Submit**

Search Tips

Use "Search" to display controlled vocabulary terms that contain the term that you are searching for as well as broader, narrower and related terms. For example, searching for light rail will retrieve Light rail transit, monorails, railroads, rapid transit, subways, trackless trolleys, trolley cars and urban planning.

Use "Exact Term" if you know a controlled vocabulary term and want to retrieve that term as well as scope notes, prior terms and lead-in terms.

Use "Browse" to scan the thesaurus alphabetically.

All terms have hyperlinks that point to the thesaurus entry.

Clicking a select box will move a term to the Search Box where it can be used to perform a database search using the Boolean operators AND or OR along with Engineering Village 2 Quick Search limits. All controlled terms present in the database have a Select box. Lead-in terms that have never been used as controlled vocabulary terms can not be selected.

搜索: 查找索引词中的词条

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主题词表

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Thesaurus

To add terms to your search, click the box in the Select column.

Click on a hyperlinked term to display its thesaurus entry.

Terms in italics are lead-in terms that point to controlled vocabulary.

Terms with an asterisk are previously used terms that have been replaced by newer terms.

SELECT DATABASE

☒ Compendex ☐ Inspec ?

ENTER TERM

air filters

☒ Search ☐ Exact Term ☐ Browse ?

Submit

Search: air filters

6 matching terms found

Terms

Air cleaners

Air filters

Filters (for fluids)

Filtration

Purification

Ventilation

Select

☐

☐

点击查看主题词表里的详细内容

[1]

LIMIT BY

All document types ?

All treatment types ?

All languages

☒ 1884 To 2006

☐ 1 Updates ?

SEARCH BOX

COMBINE SEARCH WITH

☐ AND ☒ OR

SORT BY

☒ Relevance ? ☐ Publication year

Search

Reset

Remove

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 Engineering Information
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主题词表

SELECT DATABASE
☒ Compendex ☐ Inspec ?

ENTER TERM
air filters
☒ Search ☐ Exact Term ☐ Browse ?

Search: [air filters](#) >> Air filters

Air filters ☐ (Selected) **i**

Air filters
Introduced: Predates 1975
Related classification codes: 451.2: Air Pollution Control; (802.1) : Chemical Plants & Equipment

Related Terms
Filtration
Purification
Ventilation

Select
☒
☒
☒

Limit By
All document types
All treatment types
All languages
1884 To 2006
1 Updates

SEARCH BOX
Filtration
Purification
Air cleaners
Ventilation

☒ Relevance ? ☐ Publication year

点击“i”查看与该词条相关的更多信息

选择的词条会自动添加到搜索表里

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主题词表

Easy Search Quick Search Expert Search Thesaurus eBook Search Ask an Expert Help

SELECT DATABASE
☒ Compendex ☐ Inspec ?

ENTER TERM
air filters

☐ Search ☒ Exact Term ☐ Browse ? **Submit**

Exact Term: air filters

Air filters ☐ (Select) ?

Broader Terms

Air cleaners	☒
Filters (for fluids)	☐

Select

精确词: 查看主题词表, 选择工程
信息控制词条

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主题词表

The screenshot displays the Engineering Information Thesaurus interface. At the top, there are navigation tabs: Easy Search, Quick Search, Expert Search, Thesaurus, eBook Search, Ask an Expert, and Help. Below these, the 'SELECT DATABASE' section has radio buttons for 'Compendex' (selected) and 'Inspec'. The 'ENTER TERM' section contains a text input field with 'air filters' and three radio buttons: 'Search', 'Exact Term', and 'Browse' (selected). A red circle highlights the 'Browse' button. To the right of the input field is a yellow 'Submit' button. Below the input field, a list of terms is displayed under the heading 'Browse: air filters'. The terms are: Air ejectors, Air engines, Air entrainment, Air filters (highlighted in orange), Air lubrication, Air navigation, Air navigation—Air traffic control*, Air navigation—Inertial systems*, Air permeability, and Air pollution. To the right of this list is a 'Select' column with checkboxes. A red box with a white background and a red border contains the text '浏览:扫描主题词条的同义词列表' (Browse: Scan the list of synonyms for the topic term), with a red line pointing to the 'Browse' button.

Easy Search Quick Search Expert Search Thesaurus eBook Search Ask an Expert Help

SELECT DATABASE
☒ Compendex ☐ Inspec ?

ENTER TERM
air filters
☐ Search ☐ Exact Term ☒ Browse ? Submit

Browse: air filters

Terms

- Air ejectors
- Air engines
- Air entrainment
- Air filters
- Air lubrication
- Air navigation
- Air navigation—Air traffic control*
- Air navigation—Inertial systems*
- Air permeability
- Air pollution

Select

浏览:扫描主题词条的同义词列表

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Engineering Village还具如下特色：

- 通过布尔逻辑运算进行高级搜索
- 保存记录文件夹
- **Blog This!**
- **RSS**馈给

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Blog This

- 博客允许任何人通过简便易用的发布工具，与他人分享自己的观点、资讯或激情。
- 博客记录可用来做什么？
 - 创设最近资料通告服务，在标题区强调最近发布的内容。
 - 与您所在的机构以外的受众分享在**Engineering Village**平台找到的信息。

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Blog This

[Abstract](#) | [Detailed Record](#) | [Full-text](#)

[Blog this](#)

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[Print](#)

[Download](#)

[Save](#)

Record 1 from Compendex for:((high resolution and wafer*) AND ((sreenivasan s v}{VWN AU})), 1884-2005

Check record to add to Selected Records

☐ 1.

Accession number: 05139011401

Title: Distortion and overlay performance of UV step and repeat imprint lithography

Authors: [Choi, Jin](#); [Nordquist, Kevin](#); [Cherala, Ashuman](#); [Casoose, Lester](#); [Gehoski, Kathy](#); [Daukshe, William J.](#); [Sreenivasan, S.V.](#); [Resnick, Douglas J.](#)

First author affiliation: Molecular Imprints, Inc., Austin, TX 78758, United States

Serial title: Microelectronic Engineering

Abbreviated

 **Engineering Village 2**

[Close](#)

Mon Please click on the button below to select the link

Publ

```
<table border="0" cellspacing="0"
cellpadding="0" width="99%"><tr><td
valign="top"></td></tr></table><a
```

[Select Content](#)

点击'**Blog This**'按钮, 选择框内显示的内容, 粘贴到您的公告栏里;
一旦在公告栏中发布, 其标题便会链接至“记录”摘要。

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博客记录

Posting Settings Template View Blog

Create Edit posts Status

Title: Air Filtration

Link:

Edit HTML Compose

Recover post

```
<a href="http://207.38.177.32/controller/servlet/Controller?CID=blogDocument&MID=opx_5548694&DATABASE=opx">Cabin air filtration</a><table border="0" cellspacing="0" cellpadding="0" width="99%"><tr><td valign="top"></td></tr></table>
```

For keyboard shortcuts, press Ctrl with B = Bold, I = Italic, S = Print

Allow New Comments on This Post: ☒ Yes ☐ No

Change Time & Date: 12 : 54 PM Jul 13 2005

Save as Draft Publish Post

发布

Search

ABOUT ME

Name: Gali

View my complete profile

PREVIOUS POSTS

- Cabin air filtration

WEDNESDAY, JULY 13, 2005

Air Filtration

Cabin air filtration

posted by Gali @ 12:54 PM

Comments:

Post a Comment

« Home

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RSS

- **什么是RSS?**

- **RSS**是一种用于在互联网上发布网络内容的**XML**格式;
- 也称为简单的连锁。

- **为什么RSS重要?**

- 将更新的内容传递给阅读器;
- 避免弹出式广告和垃圾邮件等干扰, 从而将注意力更好地集中在内容上。

RSS (真正简单的连锁)

Search Results 12 records found in Compendex for 1884-2006 [Save Search](#) | [Create Alert](#) | [RSS](#) ?
[+\(\(bailey t c\) WN AU\) AND \(\(\(ultraviolet radiation\) OR \(lithography\)\) WN CV\)](#)
Sort by: ▼ Relevance [Date](#) [Author](#) [Source](#) [Publisher](#)

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 Engineering Village 2

[http://www.engineeringvillage2.org/controller/servlet/Controller?
CID=openRSS&SYSTEM_PT=t&queryID=118cb3a109985f0425M2b6fprod4data1](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=openRSS&SYSTEM_PT=t&queryID=118cb3a109985f0425M2b6fprod4data1)

Copy and paste the link to your RSS reader. Each week when the database is updated any new results matching your query will be displayed in your RSS reader. Up to 400 titles will be delivered with each update.

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My Feeds | **Add a Feed** | Edit Locations | Extras | Downloads | My Account | Help

Help

- What kinds of feeds can I add?
- What is a folder for?
- How do I work with secured feeds?
- **Help Center**

Find Feeds **Recommended Feeds** **Smart Feeds** **Premium Feeds** **URL & Import**

URL | Import

Step 1: Enter the Feed's URL

Feed URL:

→ Add Feed

Tip: If you don't know the feed URL for a weblog or other site, try entering the web page URL. NewsGator Online can find the feed for you.

My Feeds:

Feeds	Links	Locations	
((air filtration) WN ALL)	HTML RSS	All	

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传递到您阅读器上的RSS

The screenshot displays the newsgator website interface. At the top, there is a navigation bar with links for "About", "Press", and "Partners". Below this, a yellow banner contains the "newsgator" logo and navigation tabs for "Home", "newsgator online", and "newsgator manager". A "Signed in as:" label is visible on the right. A secondary navigation bar includes links for "Add Feeds", "Settings", "Organize Folders", and filters for "Only unread items", "Current Posts", and "Older Posts". A "Sort By Date" dropdown and a "Search" button are also present.

The left sidebar features a "My Feeds (88)" section with a list of feeds, including "((((biosensors) WN ALL) AND ((nano*) WN ALL))) (26)", "((air filtration) WN ALL) (4)", "Christina's LIS Rant (7)", "CorporateBloggingBlog (7)", "Engineering Resources (5)", "Library Stuff (15)", "LibraryPlanet.com (5)", and "LISNews.com (19)". Below this is a "The Latest Buzz" section with links to "More tube station incidents (164 incoming links)", "Media Alert: Microsoft Unveils Official Name for 'Longhorn' and Sets Date for First Beta Targeted at Developers and IT Professionals: Company announces official name of its next-generation Windows client operating system. (103 incoming links)", and "More tube station incidents (164 incoming links)".

The main content area displays a list of article previews. Each preview includes a title, a date and time stamp, a status icon, and a rating. The titles are: "Green-Ampt model for unsaturated infiltration affected by air pressure entrapped in soil", "The fouling characterization and control in the high concentration PAC membrane bioreactor HCPAC-MBR", "Influence of module configuration and hydrodynamics in water clarification by immersed membrane systems", and "Modeling liquid spray evaporation in heated porous media with a local thermal non-equilibrium model". Each preview is followed by a "Mark All Posts On This Page As Read" link and a "Page: 1 of 1" indicator.

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