



Engineering Village
Recursos e Funcionalidade



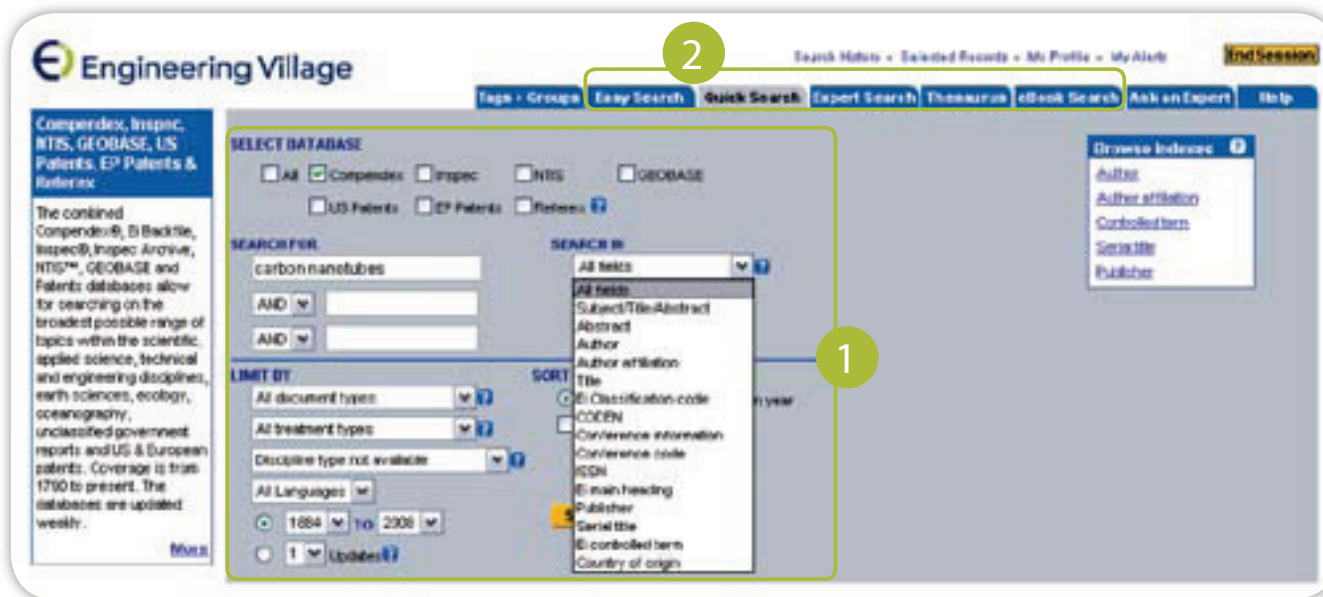
EngineeringInformation
Step Ahead.



O Engineering Village é uma plataforma para descobertas onde os cientistas podem pesquisar diversas bases de dados de registros de engenharia de várias fontes confiáveis, incluindo publicações acadêmicas, publicações comerciais, patentes, relatórios técnicos, materiais de referência e atas de conferências.

As bases de dados acessadas através desta plataforma referem-se ao conteúdo mais respeitado disponível no campo da engenharia.

O ambiente dinâmico do Engineering Village adiciona inteligência aos resultados das buscas feitas pelos pesquisadores, ajudando-os a entender o que encontram e como aplicar ao seu trabalho.



Encontre informações de engenharia relevantes e confiáveis.

1. A busca com campo restrito de registros indexados por especialistas assegura precisão na busca e relevância no resultado encontrado.

2. Várias opções de busca fornecem recursos de fácil utilização para usuários iniciantes, assim como funções de busca mais avançadas — incluindo thesaurus, índices de busca etc. — para pesquisadores experientes.

Refine de forma inteligente sua pesquisa, identifique tendências de busca e fique atualizado com as mais recentes descobertas da área.

3. Resultados em facetas agrupam as informações mais relevantes dos registros encontrados por compos-chave para fornecer seu contexto e entendimento. Refine a sua busca escolhendo incluir ou excluir termos.

4. Opções personalizadas de alerta enviam atualizações semanais, via e-mail ou RSS, de novos registros que se enquadram em seus critérios de busca.

The screenshot displays the Engineering Village search results page. At the top, the site logo and navigation menu are visible. The search results section shows 21038 records in Compendex for 1994-2008. The search term is '(Carbon Nanotubes) WITH ALL fields'. A 'Create Alert' button with an RSS icon is highlighted with a green circle and the number 4. The 'Refine Results' sidebar on the right lists authors and their affiliations, with a green circle and the number 3 next to it. The search results list three entries, each with a checkbox, title, authors, source, and database information.

Engineering Village

Search History - Selected Records - My Profile - My Alerts

Tags + Groups Easy Search Quick Search Expert Search Thesaurus eBook Search Ask an Expert Help

Search Results New Search Next Page

Abstract - Detailed - Full-text

Record 1 from Compendex for: ((nanotubes)) (PN All fields), 1994-2008

Check record to add to Selected Records

1. Accession number: 86109854822

Title: Improvement of the elastic modulus of micromachined structures using carbon nanotubes

Author: Joshi, Prasen; Govil, Abhishek; Gupta, Anand; Tadokoro, Shiroo; Ghani, Peter C.

Author affiliation: Departments of Electrical Engineering, Penn State University, University Park, PA 16802, United States

Serial title: Proceedings of SPIE - The International Society for Optical Engineering

Abbreviated serial title: Proc SPIE Int Soc Opt Eng

Volume: v6111

Publication year: 2006

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Add a tag

Public

Private

My Institution

Assign for groups

OK Cancel

Organize informações de registros para recuperação fácil e colaboração com colegas.

5. Marque os registros com palavras-chave que fazem sentido para você para que seja fácil reencontrá-los ou pesquise marcações de outros usuários para obter novas perspectivas.

Engineering Village

Search History - Selected Records - My Profile - My Alerts

Tags + Groups Easy Search Quick Search Expert Search Thesaurus eBook Search Ask an Expert Help

Tags + Groups View/Edit Groups Rename Tags Delete Tags

Search Tags

Public

Private

My Institution

Private Groups

Search

View: Public Sort: Alphabetical Popularity Most recent

All hoc networks Antibodies Italiana Capillary electrophoresis Cluster analysis Conducting polymers Contact resistance Data sets Datasets Dynamic models Electrochemical properties Electronic cooling Electronics cooling Environmental conditions Failure modes Fault diagnosis Film coating Gene expression Grid computing Histograms Hydrogen production Info business Informatics Information visualization Knowledge discovery Lead free solder Mach number Mach numbers Matrix suction Microchannels Microfluidics Modeling Nanoparticles Noise neural Numerical modeling Numerical simulation Ontology Optical Burst Switching OHS Optical networks Performance analysis Phosencrystal Phosencrystal films Photonic crystals Power quality Room temperature sathya Sea surface temperature SST Sensor networks Silicon photonics Soil properties Sol suction Spectral response Standard deviation Stars Structure

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6. Crie grupos e compartilhe os seus registros marcados com os membros ou escolha compartilhá-los com a sua instituição ou a comunidade inteira do Engineering Village.

Crie links com facilidade para artigos de texto e registros adicionais correlatos.

7. Links ao texto completo o levam a partir de informações bibliográficas no Engineering Village para documentos em texto completo hospedados em websites das editoras.

8. A seleção e categorização por especialistas em engenharia assegura muitos links aos registros correlatos, através de conceitos e palavras-chave apropriados.

The screenshot shows the Engineering Village interface. At the top, there's a search bar and navigation tabs. Below, a search result is displayed with the following details:

- Title:** Improvement of the elastic modulus of microstructured structures using carbon nanotubes
- Author:** Jiahui Peng, Yanbin Zhang, Guangjun Zhang, Xuebin Zhang, Yuesong Zhang, Peter...
- Author affiliation:** Department of Electrical Engineering, Fudan University, University Park, PA 19802, United States
- Serial title:** Proceedings of SPIE - The International Society for Optical Engineering
- Microstructured serial title:** Proc SPIE Int Soc Opt Eng
- Volume:** v 8111
- Publication year:** 2006
- Pages:** p 81118T
- Language:** English
- ISSN:** 0277-7866
- CODEN:** PROEOD
- Document type:** Conference article (CA)
- Conference name:** Reliable, Packaging, Testing, and Characterization of MEMS/MOEMS V
- Conference date:** Jun 25-26 2006
- Conference location:** San Jose, CA, United States
- Conference code:** 67238
- Sponsor:** SPIE
- Publisher:** International Society for Optical Engineering, Bellingham WA, WA 98227-0001, United States
- Abstract:** It has been shown that the addition of single-walled carbon nanotubes (SWNTs) cause an increase in the resonance frequency of microstructured demand-clamped structures. This is believed to be due to an increase in the effective stiffness of the microstructured structures due to the high Young's modulus of carbon nanotubes. These results were obtained in spite of a relatively poor control over the orientation and axial density of the deposited SWNTs. Finite element simulations showed an increase in the resonance frequency of up to (approximately) 20% for the simulated devices. This increase in the resonance frequency of the bridges can be attributed to the high Young's modulus (greater than 1 TPa) of the carbon nanotubes.
- Number of references:** 13
- El main heading:** Microstructures
- El controlled terms:** Carbon nanotubes - Resonance - Elastic moduli - Structural design - Stiffness - Graphite nanotubes - Code sheet method
- Uncontrolled terms:** Graphite nanotubes - Carbon nanotubes - Structural stress process - Resonant frequency - Graphite nanotubes
- Classification codes:** 68.2 Working Conditions - 92.1 Christiane 2014 - 92.1 Mathematics - 12.0 Computer Applications - 31.6 Research Methods
- Treatment:** Theoretical (TH)
- DOI:** 10.1117/12.657674
- Database:** Compendex
- Copyright and indexing terms:** © 2007 Elsevier Inc. All rights reserved.
- Full text and Local Holdings Links:**
 - Full text links: Search for this document - Search for this author or group
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 - Full text links: Search for this document - Search for this author or group

Three green callout boxes with numbers 7 and 8 highlight specific features:

- Box 7 (top): Points to the search bar and navigation tabs.
- Box 8 (middle): Points to the abstract text.
- Box 7 (bottom): Points to the 'Full text and Local Holdings Links' section.



Para obter mais informações, visite a página www.ei.org ou entre em contato conosco através do e-mail ei@elsevier.com.br ou do telefone + 55 21 3970 9300.

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