

## ASME 数据库导航

### 一、数据库介绍

ASME (American Society of Mechanical Engineering, 美国机械工程师学会) 数据库是美国最早 (1880 年) 成立的专业协会之一, 是世界上最大的技术出版机构之一, 制定了众多工业和制造业的行业标准, 收录有 30 余种期刊, 1600 余卷会议录, 200 余种电子图书。

### 二、使用说明

#### Module 1: Journals

The screenshot displays the ASME Digital Collection website. The top navigation bar includes 'Home', 'Journals', 'Conference Proceedings', 'eBooks', 'Topic Collections', 'Library Service Center', and 'Help'. A search bar is located at the top right. Below the navigation bar, there are several journal covers, including 'ENERGY EFFICIENCY', 'THERMAL SCIENCE AND ENGINEERING APPLICATIONS', 'BIOMEDICAL ENGINEERING', and 'THERMAL SCIENCE AND ENGINEERING APPLICATIONS'. A yellow callout box points to the 'Journals' link in the navigation bar, containing the text: '在网站主页点击导航栏上Journal, 进入ASME期刊主页'.

The second part of the screenshot shows the 'Journal Home' page for the 'Journal of Applied Mechanics'. The navigation bar includes 'Home', 'Journals', 'Conference Proceedings', 'eBooks', 'Topic Collections', and 'Library Service Center'. Below the navigation bar, there are links for 'Journal Home', 'Current Issue', 'All Issues', and 'Accepted Manuscripts'. A yellow callout box points to these links, containing the text: '点击可浏览 > 当前期的目录 > 所有期 > 编辑刚收到的投稿'.

The main content area shows the 'Current Issue: Journal of Applied Mechanics' with a 'View Issue Table of Contents' link. A yellow callout box points to this section, containing the text: '最新文章和推荐文章'.

Below the current issue, there are sections for 'Newest Articles' and 'Popular Content'. A yellow callout box points to the 'Newest Articles' section, containing the text: '该刊关注的学科领域'. The 'Newest Articles' section lists a research paper: 'Stochastic Nonlinear Free Vibration Analysis of Piezolaminated Composite Conical Shell Panel Subjected to Thermoelectromechanical Loading With Random Material Properties' by Achchhe Lal, Paras Choski and B. N. Singh, published in J. Appl. Mech. 79, 061008 (2012) (17 pages). The 'Popular Content' section lists a research paper: 'A Combined Finite Element-Multiple Criteria Optimization Approach for'.

跳转到前一期或后一期

进入某一期，可以看见各栏目名称，如勘误记录、研究论文

点击EXPANDED VIEW，显示所有文章的摘要和关键词

点击某个关键词，可找到ASME出版物中所有与之有关的文章

查看PDF全文

点击此处，页面转到所有参考文献、插图和图表

保存含所有插图和文章信息的PPT（订购用户才有这个功能）

进入某篇文章，可以点击这些链接直接跳到文章某个板块，如引言、实验过程描述、术语表、参考文献

## Module 2: Conference Proceedings

按会议总名次或年份浏览

点击导航栏上的Conference Proceeding，进入会议录页面。

※ 这些会议都是ASME主办或参与合办的

**International Conference on Nuclear Engineering (ICONE)**  
18th International Conference on Nuclear Engineering (ICONE18)

**Volume Title**

- 18th International Conference on Nuclear Engineering: Volume 1
- 18th International Conference on Nuclear Engineering: Volume 2
- 18th International Conference on Nuclear Engineering: Volume 3
- 18th International Conference on Nuclear Engineering: Volume 4, Parts A and B
- 18th International Conference on Nuclear Engineering: Volume 5

**IN THIS VOLUME**

**18th International Conference on Nuclear Engineering: Volume 1**

**Fuel Cycle and Decommissioning (36)**

**Instrumentation and Controls (I&amp;C) (51)**

**Plant Operations, Maintenance, Engineering, Modifications, Life Cycle and Balance of Plant (56)**

**New Composite Materials for Decreasing of Radioactive**

**ASME Proceedings | Fuel Cycle and Decommissioning**

**New Composite Materials for Decreasing of Radioactive Molecular Iodine in the Water Coolant on the Working and New Developed NPPS**

S. A. Kulyukhin, L. V. Mizina and A. A. Tishina  
[-] Author Affiliations

Paper No. ICONE18-29006, pp. 383-386; 4 pages  
doi:10.1115/ICONE18-29006

From: 18th International Conference on Nuclear Engineering  
18th International Conference on Nuclear Engineering: Volume 1  
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**ABSTRACT**

**Abstract**

The sorption of  $^{131}\text{I}^-$ ,  $^{131}\text{IO}_3^-$ ,  $\text{I}_2$  and  $\text{CH}_3^{131}\text{I}$  from water solutions at 25°C on new composite materials obtained by modifying of cation-exchange resin KU-2 was investigated. It was established that materials are capable to absorb  $\text{I}_2$  both from distilled water, and from a water coolant of NPPs, with distribution factors  $K_d$  more than 103  $\text{cm}^3/\text{g}$  at  $V/m = 100$ . Thus, it was found full  $\text{I}_2$  absorption (more than 95.0%) was achieved for 15 min. It was shown, that anion-exchange resin is capable to adsorb  $\text{CH}_3^{131}\text{I}$  from a water solutions with distribution factors  $K_d$  more than 100.

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- Microtribological Behavior of W-S-C Films Deposited by Different Sputtering Procedures
- Tribology (January, 2013)
- Tribological Properties of Stearic Acid Modified Multi-Walled Carbon Nanotubes in

点开某一年的会议，可看见当年会议录的卷数

※ 有些会议录一年仅一卷

点开某一卷，左栏可以看见该卷有三个主题板块，每个板块下由不同与会者撰写的文章

会议录文章和期刊文章页面结构相似，不同的是没有参考文献和插图

### Module 3: eBooks

**Browse eBooks**

Year	Title	Subject	Series
		Design & Manufacturing	
		Emerging Technologies	
		Engineering Management	
		Energy and Power	
		Heat Transfer and Electronic Packaging	
		Pipeline Engineering	
		Pressure Vessels and Piping	
		Risk and Remediation	

**按主题浏览:**  
Design and Manufacturing 设计与制造  
Emerging Technologies 新兴技术  
Engineering Management 工程技术管理  
Pressure vessel and pipeline 压力容器和管线  
Gas Turbine and Power 燃气轮机和动力  
Heat Transfer & Electronic Packaging 热传导和电子封装  
Pipeline Engineering 管线工程  
Risk and Remediation 风险和补救  
Tribology 摩擦学

**Design and Application of the Worm Gear**

Author(s)/Editor(s): William P. Crosher  
Published: 2002  
DOI: 10.1115/1.801780

**Description | Details**

The concept of the "worm gear" dates back to ancient times... improved. It describes a gear that contains a spiral or "worm" like... but today it has many varied applications from power transmission to manufacturing. This comprehensive professional reference on the subject covers not only the design and manufacture of worm gears, but also issues regarding performance, maintenance, failure analysis, as well as applications. The author has extensive experience in the field and has written this book for gear designers and manufacturers, gear users, as well as for mechanical engineering students.

**Front Matter** PUBLIC ACCESS

**Chapter 1. How the Worm Gear Developed through Time**

**Chapter 2. Understanding the Worm Gear**

**Clicking on the chapter title, you can view the abstract of this part.**

**Clicking on the author's name, you can view the articles he published in ASME other publications.**

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