



# ASME 美国机械工程师学会 数据库

——助力高校学术科研，数据库检索与投稿

iGroup Training Team





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1. 学协会出版社简介
2. 福建理工大学与ASME 出版物
3. ASME 数据库平台检索案例
4. ASME 期刊投稿概要



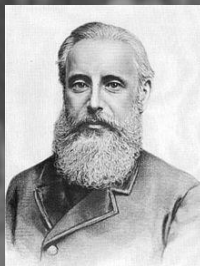
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4. ASME 期刊投稿概要

# ASME 成立于1880年



Alexander Lyman Holley  
亚历山大·莱曼·霍利  
美国著名钢铁工程师、发明家  
引入、改进并优化贝塞麦炼钢法  
ASME创始成员、副主席



Henry R. Worthington  
亨利·沃辛顿  
美国机械工程师、发明家  
发明了直动蒸汽泵、双缸蒸汽泵、  
第一台双缸城市供水发动机等  
ASME创始成员、首任副主席



John Edson Sweet  
约翰·埃德森·斯威特  
美国机械工程师、发明家  
制造了世界上第一台千分尺卡尺  
ASME创始成员  
ASME第三任主席（1884-1885）  
1914年荣获约翰·弗里茨奖章  
（工程界的诺贝尔奖）



霍利半身像位于  
华盛顿广场公园



Holley Medal  
霍利奖章  
设立于1924年  
表彰具有工程性质的  
杰出且独特的行为……



Henry R. Worthington Medal  
亨利·沃辛顿奖章  
设立于1980年  
表彰在泵类机械、系统及相  
关理念领域中取得卓越成就  
的个人。

## 学协会出版社特色

### 主席

### 专利/发明/成就

第1任 Robert Henry Thurston	美国著名机械工程教授和教育家
第15任 John Fritz	美国钢铁工业之父
第25任 Frederick W. Taylor	科学管理之父 《科学管理原理》
第29任 George Westinghouse	铁路空气制动器
第48任 Elmer Sperry	现代航海技术之父 发明了陀螺罗盘

### 第131任 Marc Goldsmith 马克·戈德史密斯

能源和核工程专家、IEEE 高级会员  
无国界工程师协会国家指导委员

### 第134任 J. Robert Sims 罗伯特·西姆斯

美国化学和机械工程师  
埃克森美孚公司前研究工程师和发明家



## 学协会出版社特色

### 美国机械工程师学会

American Society of Mechanical Engineers

成立于1880年，通过制定专业规范和标准、组织研发活动、联系政府机构、召开会议、出版书刊以及持续的教育训练，来促进全球机械工程及跨学科工程学的技术水平、科学研究和行业运作。现已成为一家国际性非赢利教育和技术组织，也是世界上最大的技术出版机构之一。



成立年份：1880 年

会员人数：130,000+

遍布国家：150+

下属研究所：国际燃气涡轮研究所、国际石油技术研究所

学术会议：约40场/年，超过90个国家参会

专业发展课程：约200次/年

规范和标准：940+

## 学协会出版社特色

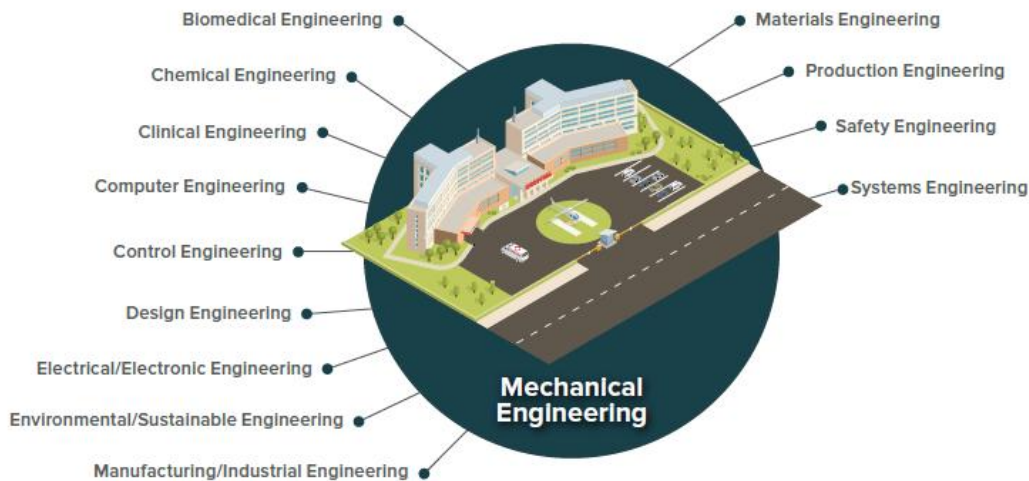
### 美国机械工程师学会

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# 不止于机械：打造更美好未来的核心资源



ASME不仅专注于传统机械工程，也致力于推动工程技术的跨学科发展，出版内容覆盖从经典工程学科到前沿科技应用的广泛方向：

- 生物医学工程
- 化学工程
- 航空航天工程
- 计算机工程
- 控制工程
- 设计工程
- 电气/电子工程
- 环境工程/可持续工程
- 制造/工业工程
- 材料工程
- .....

## ASME 机械设计终身成就奖

2020年 ASME Machine Design Award

该奖设立于1958年，是ASME学会的顶级荣誉奖项，也是ASME 设计工程分会的最高奖项。戴建生教授荣获2020年ASME机械设计终身成就奖，是该奖项继1958年ASME机械设计分会（现为设计工程分会）设立该奖项后的第58位获奖者，同时也是获奖名单中的第一位华人。



## 学协会出版社特色



### ASME Yeram S. Touloukian Award

该奖成立于1997年，是国际热物性领域最高学术奖，每三年颁发一次，以表彰在热物理性质领域做出的杰出贡献。该奖项认可的领域包括但不限于机械工程、化学工程、物理和化学。该奖项设立以来共有8人获奖，张卓敏教授是首位华人获奖者。



## ASME工程界不断拓展的资源宝库



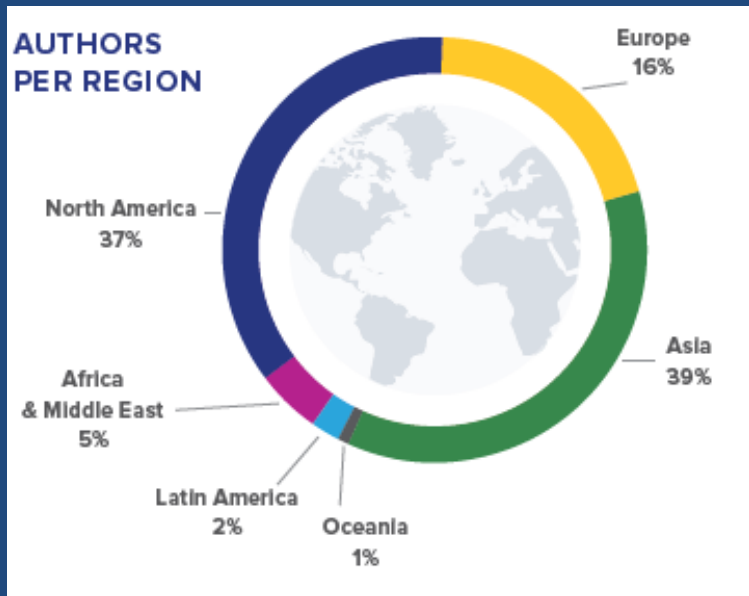
### 全球访问情况

2023年，来自全球150多个国家的2500多家机构，累计有超过300万用户访问ASME平台，浏览了超过1090万次页面，涵盖期刊文章、会议论文和电子书章节。

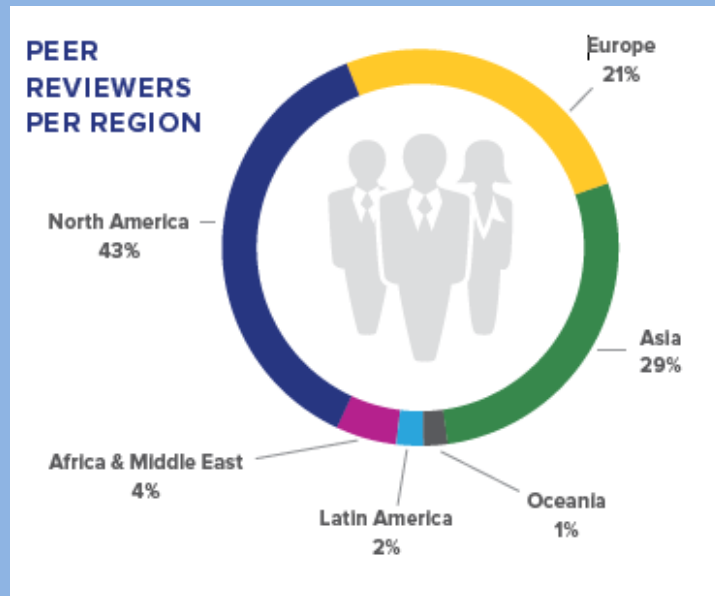
- 用户数超300万
- 页面浏览量超1090万
- 覆盖2500多家机构
- 涉及150多个国家



## ASME工程界不断拓展的资源宝库



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同行评审专家



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## 美国机械工程师学会 出版物

ASME Digital Collection Database

ASME Journals

期 刊

ASME Conference Proceedings

会议录

ASME eBooks

电子书

ASME Standards

标 准



## ASME出版物：期刊

### 美国机械工程师学会 出版物

ASME Digital Collection Database

ASME Journals

期 刊



期刊种数：39种

更新频率：每年200多期，约7,000篇文章

收录年限：1880 年至今（现刊为2000年至今）

经典期刊：《应用力学评论》 《应用力学期刊》

最新创刊：《ASME 转化机器人学快报》 *NEW IN 2025*

《能源技术期刊，A辑：可持续与可再生能源》 *NEW IN 2025*

《能源技术期刊，B辑：地下能源与碳捕集》 *NEW IN 2025*

重点学科：机械工程、制造工程、海洋工程、力学、热力学、电子电气工程、机器人学、自动化和控制系统、声学、材料科学、能源与燃料、可再生能源、纳米科学和技术、生物医学工程、运筹学和管理工程、核科学技术等。

# ASME期刊的学术影响力

## 美国机械工程师学会 出版物

ASME Digital Collection Database

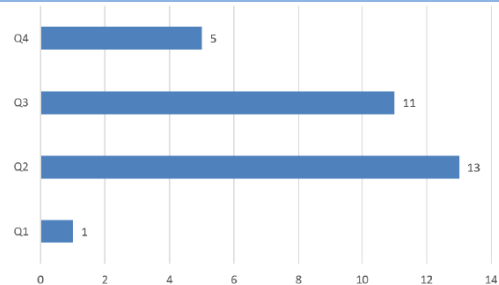
ASME Journals

期 刊



- SCI收录情况：39种期刊，其中24种期刊被SCI收录，另有6种期刊被ESCI收录。
- 2025年度《期刊引证报告》数据显示：
  - ✓ ASME 期刊的年度被引用次数约14万；
  - ✓ 15本期刊影响因子指标超过 2；
  - ✓ 18本期刊影响因子较去年上涨；
- SCI区位分布：如ASME经典期刊《应用力学评论》位于JCR Q1分区，最新影响因子16.1，力学领域排名第二；
- 年度高引用次数期刊：《应用力学期刊》 16,112 和《传热期刊》 12,896。

ASME期刊JCR分区



Source: 2024 JCR, 发布于2025年6月

# 福建理工大学与ASME出版物



## ASME 学会 支持 福建理工大学

ASME and Fujian University of Technology

- 机械与汽车工程学院
- 材料科学与工程学院
- 电子电气与物理学院
- 智慧海洋科学技术学院
- 土木工程学院
- 帕特雷国际工程师学院



学科建设：

一级学科硕士学位授权点：机械工程、材料科学与工程、土木工程等

专业硕士学位授权类别：能源动力、机械等

省级一流应用型高校主干学科：土木工程、材料科学与工程、交通运输工程

省级应用型学科：土木工程、电气工程、机械工程等

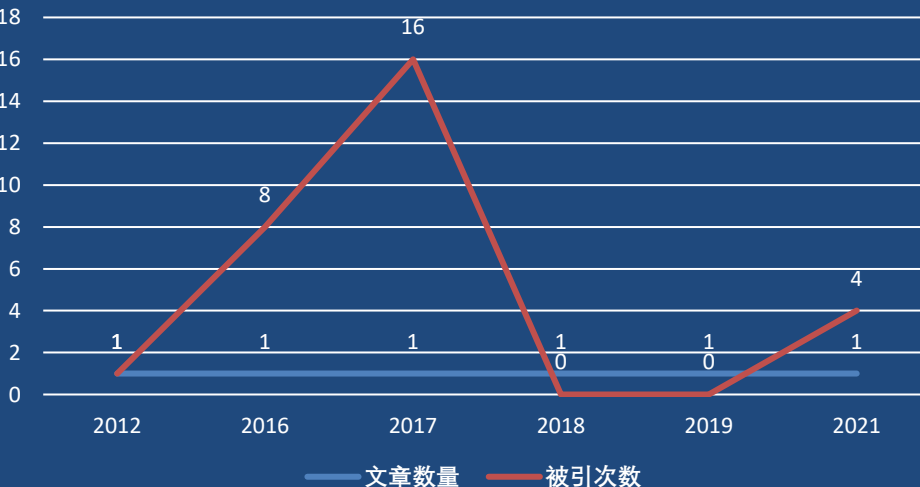
省级特色重点学科：材料科学与工程

学科：逐步形成“大机电”“大土木”“大海工”和特色新文科的“三大一特”整体布局。

ESI全球排名前1%学科：工程学、计算机科学、材料科学

# 福建理工大学与ASME出版物

## 福建理工大学学者通过ASME发表的文章数量&被引用次数



作者发文示例:

### A Kinematic Analysis Method of Double Roller Tripod Joints Based on the Principle of Conjugate Surfaces

基于共轭面原理的双辊三脚接头运动学分析方法

邱胤原, 机械与汽车工程学院

关键词: Tripod joint (三脚接头)、Double roller (双辊)、Conjugate surface (共轭面)、Kinematic analysis (运动学分析)、Fit clearance (配合间隙)、Design methodology (设计方法学)、Systems design (系统设计)。

#### RESEARCH PAPERS

### A Kinematic Analysis Method of Double Roller Tripod Joints Based on the Principle of Conjugate Surfaces

Yinyuan Qiu, Baoshu Shi, Hui Lü



[Author and Article Information](#)



**Yinyuan Qiu**

School of Mechanical and Automotive Engineering, Fujian University of Technology, Fuzhou 350118, China;  
School of Mechanical and Automotive Engineering, South China University of Technology, Guangzhou 510641, China

### 《应用力学评论》 Applied Mechanics Reviews

收录在SCI力学领域，影响因子持续保持高位，IF 16.1，排名力学领域第二（2/172），JCR分区Q1。高品质的评论期刊，汇集了应用力学和工程学相关分支学科的评论文章资料，包括高级研究人员撰写的技术进展、教学进展、回顾调查评论及世界主要期刊文献的摘要等。

#### 检索关键词：

fluid mechanics（流体力学）、solid mechanics（固体力学）、heat transfer（传热）、dynamics（动力学）、vibration（震动）、education（教学培训）、thermal coupling（热耦合）、aerodynamic（气动力）、bearing system（轴承系统）

<https://asmedigitalcollection.asme.org/appliedmechanicsreviews>



影响因子

16.1

年度被引

用次数

5,823

## ASME 经典期刊

国内外研究人员机构：

帝国理工学院

加州理工大学

普渡大学

华盛顿大学

弗吉尼亚大学

清华大学

西北大学

上海大学

力学研究所

### Latest Podcast



January 23, 2019

**Applied Mechanics Reviews Audio Interview:**  
**Prof. Kenneth Liechti**

44 minutes, 53 seconds



Prof. Ken Liechti of University of Texas at Austin is an award-winning authority on the mechanics of interfaces, describing bonding, unbonding, and crack propagation using innovative experimental techniques with applications to thin film mechanics and graphene transfer. Pipe Major Emeritus of the Silver Thistle Pipes and Drums band out of...[More](#)

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影响因子

16.1

年度被引

用次数

5,823

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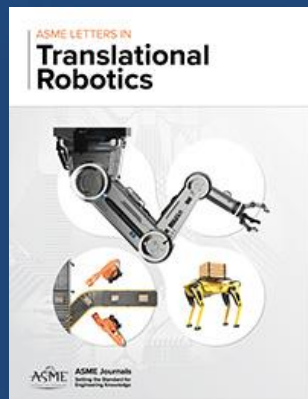
## 《ASME转化机器人学快报》 ASME Letters in Translational Robotics

范围，包括但不限于：

应用导向型设计（包括功能、形态、架构、操作）的创新实践与风险分析；大型多学科项目集成面临的挑战及解决方案；任务导向型机器人架构设计中智能体、任务及操作环境的协同优化；机器人组件/系统创新设计方法论；真实场景验证，即对创新成果的有效性及影响评估；可靠机器人系统的设计方法、分析模型与核心算法；系统集成创新及应用导向型信息物理系统开发；制造商或终端用户应用案例研究；机器人设备安全部署的创新实践；机器人专利成果的产业化路径等。

投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=40>



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2025年新刊全新上线!



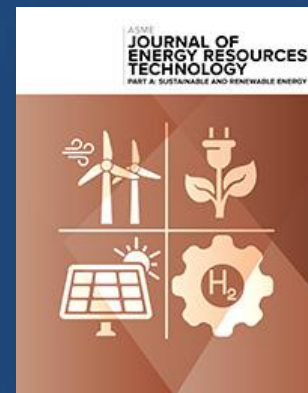
《能源技术期刊, A辑: 可持续与可再生能源》  
Journal of Energy Resources Technology, Part A: Sustainable  
and Renewable Energy

范围, 包括但不限于:

传统工程与先进热力学、火用 (Exergy) 及基于火用的方法、能量转换过程 (应用于发电厂、制冷/低温系统、复合/混合系统及其组件的能效优化)、燃料燃烧 (基础研究、过程模拟与实验验证)、替代与可再生能源技术体系、生物质与固体废弃物的能源回收、内燃机技术、机械、热能及化学储能系统等。

投稿入口:

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=41>



2025年上线!

2025年新刊全新上线!



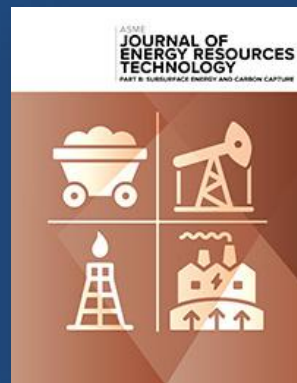
## 《能源技术期刊，B辑：地下能源与碳捕集》 Journal of Energy Resources Technology, Part B: Subsurface Energy and Carbon Capture

范围，包括但不限于：

石油勘探与开采；碳氢化合物采收率提高技术；钻井与完井技术；生产与油藏工程；地质力学；地热能源；地下能源运输；天然气/氢气储存；地下能源领域的人工智能与数据分析；碳捕集、利用与封存相关技术；碳捕集利用与存储（CCUS）安全评估；地下能源的重大理论进展与案例研究；经济评估与管理等。

投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=42>



2025年上线!



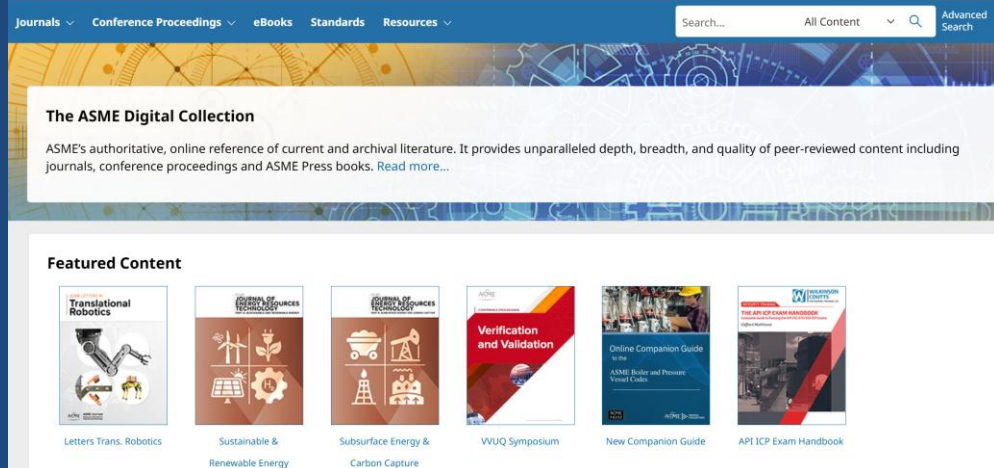
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<https://asmedigitalcollection.asme.org/>

# ASME数据库平台主页



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ASME's authoritative, online reference of current and archival literature. It provides unparalleled depth, breadth, and quality of peer-reviewed content including journals, conference proceedings and ASME Press books. [Read more...](#)

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New Companion Guide

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THE API ICP EXAM HANDBOOK

API ICP Exam Handbook

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平台及功能介绍

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## 最新资源内容

### Newest Content



Journal of Electrochemical Energy Conversion and Storage,  
May 2023, Volume 20, Issue 2



Journal of Turbomachinery, May 2023, Volume 145, Issue 5



ASME 2022 International Mechanical Engineering Congress  
and Exposition



ASME 2022 4th International Offshore Wind Technical  
Conference



Pressure Oscillation in Biomedical Diagnostics and Therapy



Ageing and Life Extension of Offshore Facilities

## 主题集合

### Topic Collections

Aerospace Industry  
Applied Mechanics  
Automotive Systems  
Biomechanical Engineering  
Biomedical Engineering  
Boilers & Pressure Vessels  
Building & Construction  
Careers  
Computer-Aided Design (CAD)  
Computers & Information in Engineering  
Conventional Power & Fuels  
Defense Industry  
Design Engineering  
Dynamic Systems & Control  
Electronic & Photonic Packaging  
Energy  
Engineering Technology Management  
Environmental Engineering  
Fluids Engineering  
Heat Transfer  
Internal Combustion Engines  
Manufacturing & Processing  
Nanotechnology  
Noise Control & Acoustics  
Nondestructive Evaluation  
Nuclear Engineering

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Applied Mechanics Reviews

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering

ASME Letters in Dynamic Systems and Control

ASME Open Journal of Engineering

Journal of Applied Mechanics

Journal of Autonomous Vehicles and Systems

al Collection

Page

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Open J. Engineering J. Eng. Sustain. Bldgs. J. Auton. Veh. Sys. IMECE New Online Guide New Edition

The Unwritten LAWS OF ENGINEERING  
SECOND EDITION  
with revisions and additions by James G. Shaboun  
original by W. J. King  
ASME PRESS

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### Announcements and Call For Papers

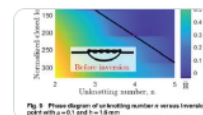
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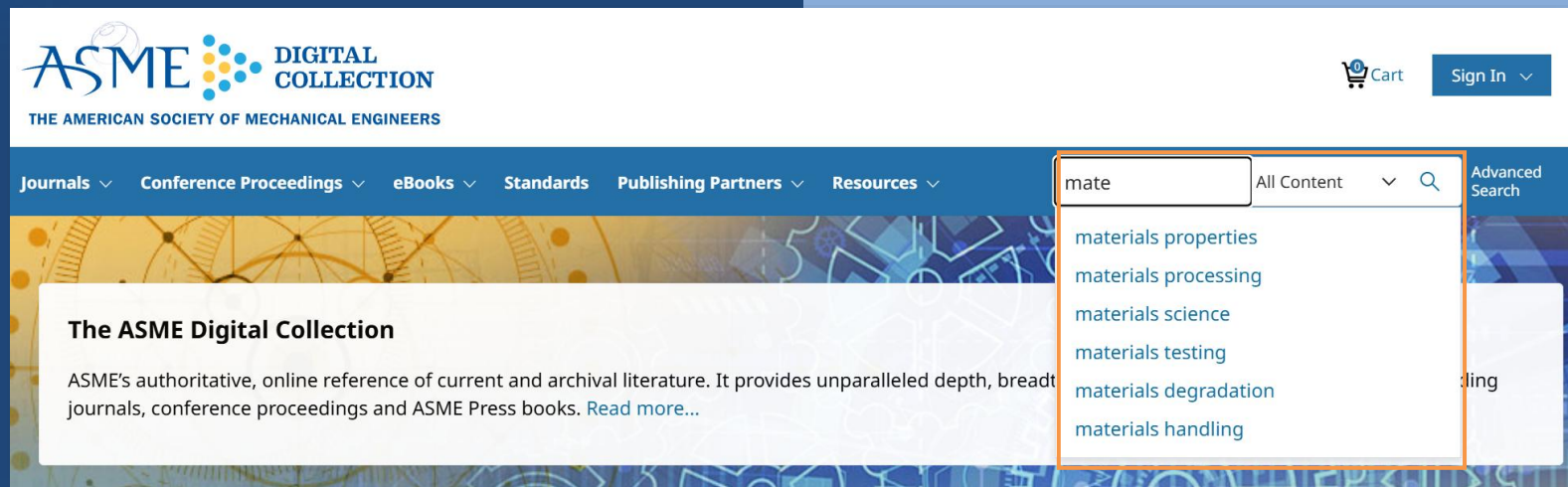
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※ 支持 布尔逻辑运算符 AND OR NOT 和 通配符 \* ? “ ”

# 数据库平台检索案例

## 布尔逻辑算符

AND

## 举例

A AND B AND C

## 意义和作用

同时包含字段A B C的数据。  
用于查准，缩小范围。

OR

A OR B OR C

至少包含A B C 其中一个字段的数据。  
用于查全，检索同义词。

NOT

A B NOT C

同时包含字段 A 和 B，但排除C。  
用于排除某个特定的字段。

## 常用通配符

## 举例

\*

nano\*

## 意义和作用

零个或多个字符：nanomaterial, nanotechnology, nanoparticles, ...

?

tur?ine

只代表一个字符：turbine

“ ”

“A B”

精确检索某个特定词组。  
如果没有“ ”，相当于 A AND B

# 数据库平台检索案例

检索式示例: `vibrat* AND fatigue`  
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☐ Journal Articles  
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1-20 of 15992

## Search Results for vibrat\* AND fatigue

Save search

PROCEEDINGS PAPERS

A Data Driven, Risk Based Approach to Manage Small Bore Connect  
**Fatigue** Failures on Process Plant 🛒

Paul Crowther, Don Mrla

*Proc. ASME. PVP2025, Volume 6: Operations, Applications, & Components; Seismic Engineering; ASME Nondestructive Evaluation, Diagnosis and Prognosis (NDPD) Division, V006T07A022, July 20–25, 2025*

**Publisher:** American Society of Mechanical Engineers

**Paper No:** PVP2025-154870

<https://doi.org/10.1115/PVP2025-154870>

... Abstract The risk of **vibration**-induced **fatigue** failure of process piping includes loss of containment in hydrocarbon and other critical systems. This can have safety, reliability and regulatory consequences. **Vibration**-induced **fatigue** accounts for more than 20% of process piping failures [1...

Abstract ▾

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Topics: **Fatigue** failure, Pipes, Risk, Vibration

PROCEEDINGS PAPERS

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# 数据库平台检索案例

## DOI 检索

### DOI (Digital Object Identifier) 数字对象标识符

期刊文献被录用和出版后具有唯一的 DOI，通过 DOI 快速定位到文献。

### 检索方法

1. 已知 ASME 某文献的 DOI: 10.1115/1.4065826
2. 在 Update Search 界面把检索项设置为 DOI
3. 输入DOI: 10.1115/1.4065826
4. 跳转到该文献页面

The screenshot shows the 'Update Search' interface of a database. The search term '10.1115/1.4065826' is entered in the search box, and the 'DOI' filter is selected. The results show one item, 'Model Parameter Calibration for Vibration Fatigue Analysis by Means of Bayesian Updating and Artificial Neural Network Based Surrogate Models'. The DOI link 'https://doi.org/10.1115/1.4065826' is highlighted with a red box. The interface also includes options for 'Journal citation', 'Format', 'Publisher', and 'Journal', as well as a 'Save Search' button and a 'Sort by' dropdown menu.

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1-1 of 1

DOI: 10.1115/1.4065826 ✕

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**JOURNAL ARTICLES**

**Model Parameter Calibration for Vibration Fatigue Analysis by Means of Bayesian Updating and Artificial Neural Network Based Surrogate Models** 🛒

**S. Maier, C. C. Saenz-Betancourt, F. Bachmann, R. Feldmann, B. Götz, F. Duddeck, T. Melz**

**Journal:** Journal of Verification, Validation and Uncertainty Quantification

**Publisher:** ASME

**Article Type:** Research-Article

*J. Verif. Valid. Uncert.* September 2024, 9(3): 031003.

**Paper No:** VVUQ-23-1057

**https://doi.org/10.1115/1.4065826**

**Published Online:** July 13, 2024

**Abstract** ▾ **View Article** 📄 **PDF**

**Topics:** Artificial neural networks, Calibration, Vibration, Sensitivity analysis, Fatigue analysis, Stress, Damage

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Author ▾

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Author: Masayoshi Tomizuka ✕

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Format

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☐ Proceedings Papers (99)

☐ American Society of Mechanical Engineers (99)

☐ ASME (67)

PROCEEDINGS PAPERS

Robust Wide-Range Controller Using Multirate Estimation and Control for Velocity Regulation and Tracking 🛒

Anthony M. Phillips, Masayoshi Tomizuka

Proc. ASME. IMECE95, Advances in Information Storage and Processing Systems, 189-196, November 12-17, 1995

Publisher: American Society of Mechanical Engineers

Paper No: IMECE1995-0494

<https://doi.org/10.1115/IMECE1995-0494>

... Engineering University of California, Berkeley Berkeley, CA 94720 Masayoshi Tomizuka Department of Mechanical Engineering University of California, Berkeley Berkeley, CA 94720 ABSTRACT A method for velocity estimation and control for systems with only incremental position measurements (e.g. motor / encoder...

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JOURNAL ARTICLES

A Kinematic Analysis Method of Double Roller Tripod Joints Based on the Conjugate Surfaces

Yinyuan Qiu, Baoshu Shi, Hui Lü

Journal: Journal of Mechanical Design

Publisher: ASME

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JOURNAL



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JOURNAL



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JOURNAL ARTICLES

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### RESEARCH PAPERS

## Mechanical Res Attenuator With Impact Load: Ex Studies

Zhenglong Yang, Jianming Peng, Dong Ge, Yanliang Li, Jiming Li, Pengcheng Liu



+ Author and Article Information

J. Appl. Mech. May 2023, 90(5): 051003 (13 pages)

Paper No: JAM-22-1378 <https://doi.org/10.1115/1.4056585>

Published Online: January 17, 2023 Article history



### Abstra

The fluidic  
one of the  
as the core  
subjected t  
steel-layer  
stress wave  
under high

attenuation performance with different steel-layered structures is analyzed based on the split Hopkinson pressure bar (SHPB) technique. The effects of contact area ratio, the orientation of contact surfaces, and

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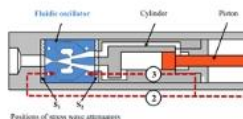
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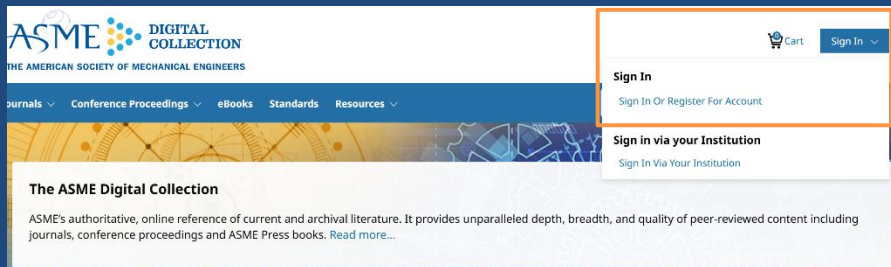
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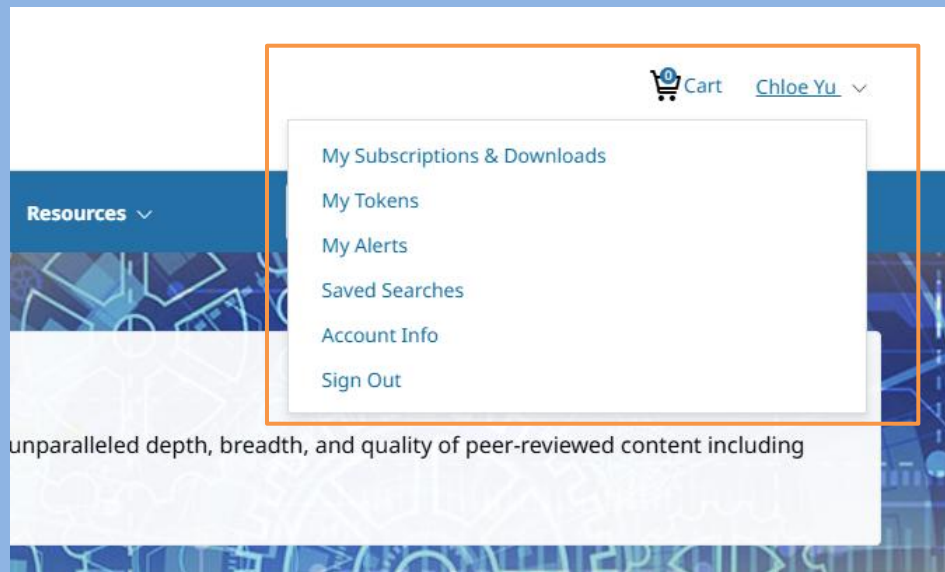


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4. ASME 期刊投稿概要



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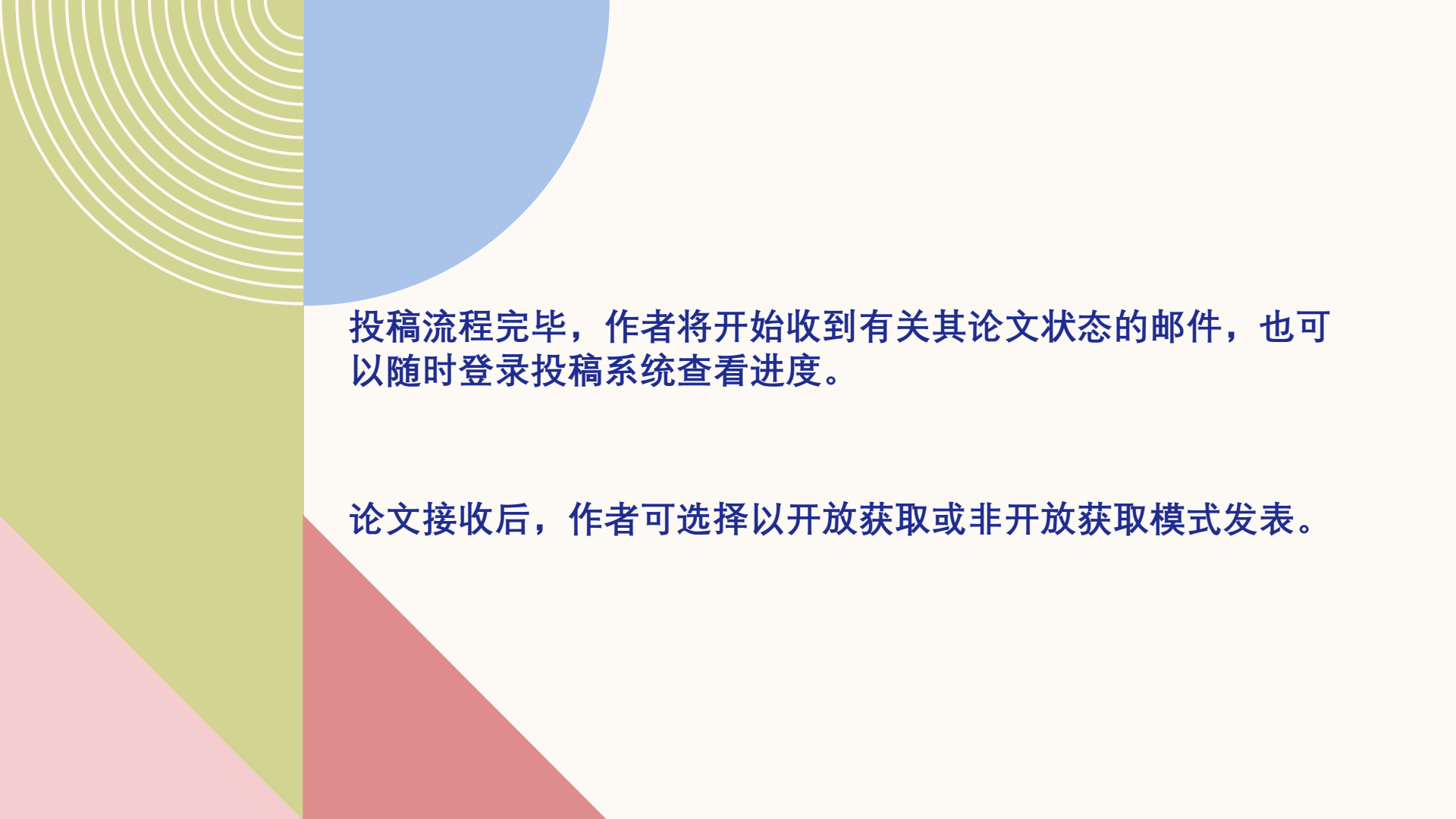
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