

iGroup



ASME（美国机械工程师学会）数据库 使用指南

提纲 CONTENTS



ASME 出版社介绍
——背景、学会、宗旨



ASME 出版物介绍
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ASME DIGITAL COLLECTION 平台说明
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ASME 学会简介



美国机械工程师学会（American Society of Mechanical Engineers）成立于1880年。

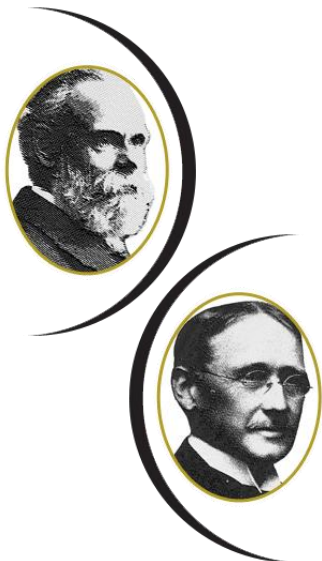
现已成为一家拥有全球130,000名会员的国际性非赢利**教育**和**技术**组织，也是世界上最大的技术出版机构之一。

ASME 宗旨

通过制定专业规范、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，来促进全球跨学科工程学的技术水平、学科研究和行业运作。

基本信息	研究活动
成立年份：1880 年	下属研究所：国际燃气涡轮研究所、国际石油技术研究所
会员人数：130,000+	学术会议：约40场/年
遍布国家：150+	参会者国家：90+
	专业发展课程：约200次/年
	规范和标准：830+

ASME 历任学会主席



主席	专利/发明
第 1 任 Robert H. Thurston	钢铁性能测试三坐标立体图表
第25任 Frederick W. Taylor	科学管理法之父
第29任 George Westinghouse	火车空气制动闸
第48任 Elmer Sperry	陀螺稳定器（用于美国海军）

第131任 Marc Goldsmith（2013年）

核能行业顾问、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、Jr（2015年）

贝赫特工程公司故障分析顾问、在埃克森美孚国际公司任职超过30年

第135任 Dr. Julio Guerrero

美国德雷伯实验室能源部首席研发长官

快来ASME数据库检索他们的姓名、查看他们发表的文章！



ASME 出版物

ASME Journals

ASME Proceedings

ASME eBooks

ASME Standards

期 刊

会议录

电子图书

标 准

ASME 出版物



期刊	ASME Digital Collection 平台
会议录	
电子图书	
规范和标准	ASME Standards Collection 平台
杂志	print only



期刊

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机械工程及其相关学科的权威期刊，涉及工业制造、材料加工、能源、自动化等应用领域。

期刊种数：**36 种**

SCI 收录：**25 种**

ESCI收录：**5 种**

更新频率：**每年发行超过200期**

收录年限：**1930 年至今**

(现刊起始于2000年)

最新创刊：**《ASME 开放工程期刊》**

《自动驾驶车辆和系统期刊》

《ASME动态系统与控制快报》

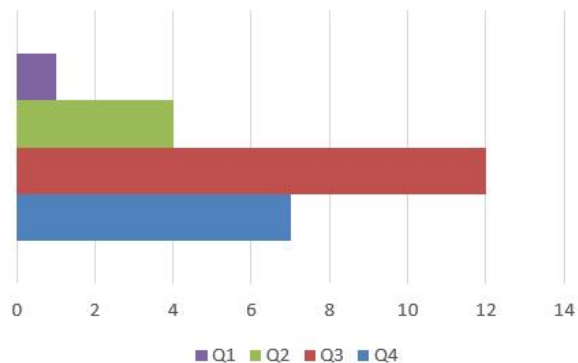
最高影响因子：**14.3 《应用力学评论》**

最高引用次数：**16,149 《应用力学期刊》**

10,015 《机械设计期刊》

期刊

- 36种期刊，其中25种期刊（约占ASME现刊的70%）被SCI收录，另有5种期刊被ESCI收录。
- 2023年度《期刊引证报告》数据显示，ASME 期刊的年度被引用次数超过12万；15本期刊影响因子指标超过 2；6本期刊影响因子涨幅超过10%；5种已被 ESCI 收录的期刊首获期刊影响因子，其中3种期刊影响因子指标超过1。
- SCI区位分布：Applied Mechanics Reviews《应用力学评论》位于JCR Q1分区，影响因子保持持续增长，2022 IF 14.3，力学领域排名第二。
- 每篇文章都经过严格的评审流程。



工程类期刊影响因子的特点

- 研究-实践-发文周期较长
- 发文研究人员数量：较其他热门学科少
- 研究人员和从业者阅读习惯：“只参考、不引用”

期刊

□ 涵盖话题

1. 基础工程

能量转换、能源、环境、运输、一般工程学、材料和结构

2. 制造工程

材料储运、设备工程和维护、加工产业、制造工程、纺织工程

3. 系统&设计

计算机在工程中的应用、信息存储和处理系统、设计工程、动力系统和控制、电气和电子封装、机电一体化、流体动力系统

期刊

研究主题概览

- ① 有限元法 (工程计算)
- ② 数学模型
- ③ 热传导
- ④ 计算机模拟
- ⑤ 流体动力学
- ⑥ 雷诺数 (流体形态)
- ⑦ 优化
- ⑧ 燃气涡轮
- ⑨ 摩擦
- ⑩ 机械设计



- Finite Element Method
- Mathematical Models
- Heat Transfer
- Computer Simulation
- Computational Fluid Dynamics
- Reynolds Number
- Optimization
- Gas Turbines
- Friction
- Design
- Numerical Methods
- Turbomachine Blades
- Heat Flux
- Cooling
- Deformation
- Algorithms
- Engines
- Combustion
- Stiffness
- Degrees Of Freedom Mechanics
- Navier Stokes Equations
- Geometry
- Tribology
- Kinematics
- Damping

经典期刊

□ 《传热传质期刊》 Journal of Heat Mass Transfer

(原Journal of Heat Transfer 《传热期刊》)

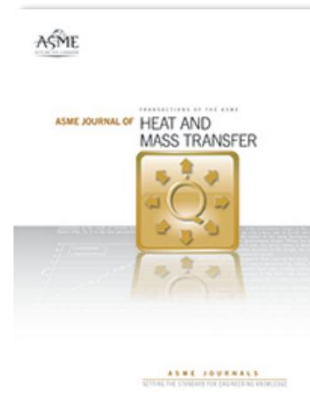
- ◆ 收录在SCI机械工程领域，位于JCR分区Q3。
- ◆ 应用于能源、环境、燃气涡轮、生物工艺学、电子设备、航空航天等领域。
- ◆ 与另一种ASME期刊《热能科学和工程应用期刊》形成互补。

检索关键词：

Biological heat and mass transfer (生物传热传质) ; Combustion and reactive flows (燃烧和反应流) ; Conduction (传导) ; Electronic and photonic cooling (电子和光子冷却) ; Forced convection (强制对流) ; Microscale and nanoscale heat and mass transfer (微米级和纳米级的传热传质) ; radioactive heat transfer (辐射传热) ; Solar-thermal processes (太阳能热过程) ; Thermal systems (热系统) ; Two-phase flow and heat transfer (两相流和传热) 。

访问网址：

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



影响因子：2.1

CiteScore：3.8

经典期刊

□ 《传热传质期刊》 Journal of Heat Mass Transfer

国内外研究人员单位：

麻省理工学院

哈尔滨工业大学

斯坦福大学

西安交通大学

普渡大学

大连海事大学

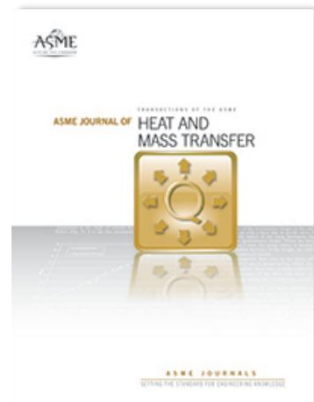
明尼苏达大学

兰州交通大学

德克萨斯A&M大学

加州大学

密苏里大学



经典期刊

□ 《机械设计期刊》 Journal of Mechanical Design

- ◆ 收录在SCI机械工程领域，位于JCR分区Q2。
- ◆ 为广大设计界提供服务，作为工程设计活动各个方面的学术、档案研究的场所，并欢迎来自所有设计领域的贡献，重点是设计综合。
- ◆ 应用于交通工具、建筑、设备、产品加工、生产系统等领域。
- ◆ 开放每年评选的获奖文章。
- ◆ 每季度一次举行网络研讨会。

检索关键词：

design automation (设计自动化) ; virtual reality (虚拟现实) ; geometric design (几何设计) ; design optimization (设计评估) ; data-driven design (数据驱动设计) ; artificial intelligence in design (人工智能在设计中的应用) ; Design for manufacturing and the lifecycle (制造和生命周期设计) ; Design of mechanisms and robotic systems (机构和机器人系统设计) ; Design theory and methodology (设计理论和方法论) 。

访问网址：

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



影响因子：3.3

CiteScore：7.3

年度被引用次数：10,015

经典期刊

□ 《机械设计期刊》 Journal of Mechanical Design

国内外研究人员单位:

麻省理工学院

北京航空航天大学

卡耐基-梅隆大学

西安交通大学

普渡大学

大连理工大学

德克萨斯A&M大学

重庆大学

加州大学



经典期刊

□ 《应用力学评论》 Applied Mechanics Reviews

- ◆ 收录在SCI力学领域，影响因子保持持续增长，2022 IF14.3，排名力学领域第二（2/137），JCR分区Q1。
- ◆ 高品质的评论期刊，汇集了应用力学和工程学所有分支学科的资料。
- ◆ 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。

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（振动）；education（教学培训）；State-of-the-art surveys（最先进的调查）；Retrospective reviews（回顾性审查）；Curricular reviews（课程审查）；Research and education policy commentary（研究和教育政策评论）；Experimental mechanics（实验力学）；Theoretical and applied mechanics（理论与应用力学）；Computational mechanics（计算力学）；Engineering science（工程科学）。

访问网址：

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



影响因子：14.3

CiteScore：21.1

年度被引用次数：5,243

经典期刊

□ 《应用力学评论》 Applied Mechanics Reviews

国内外研究人员单位:

帝国理工学院

清华大学

加州理工大学

西北大学

普渡大学

上海大学

华盛顿大学

力学研究所

德克萨斯A&M大学

弗吉尼亚大学



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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经典期刊

□ 《应用力学期刊》 Journal of Applied Mechanics

- ◆ 收录在SCI力学领域，位于JCR分区Q2。
- ◆ 是交流力学各分支领域长期关注的原创性研究成果的载体。
- ◆ 应用于理论和应用力学的所有领域，包括但不限于：空气动力学；气动弹性；生物力学；边界层；复合材料；计算力学；液压系统；材料的机械性能；冲击力学；微观力学；纳米力学、热力学；湍流；振动；波传播等。

检索关键词：

Aerodynamics; Aeroelasticity; Biomechanics; Boundary layers; Composite materials; Computational mechanics; Hydraulics; Mechanical properties of materials; Mechanics of shocks; Micromechanics; Nanomechanics; Thermo-mechanics; Turbulence; Wave propagation.

访问网址：

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



影响因子：2.6

CiteScore：4.7

年度被引用次数：16,149

经典期刊

□ 《应用力学期刊》 Journal of Applied Mechanics

国内外研究人员单位：

麻省理工学院

清华大学

帝国理工学院

浙江大学

加州理工大学

西安交通大学

普渡大学

西北工业大学

华盛顿大学



ESCI (新兴学科索引) 收录期刊

□ Journal of Micro and Nano-Manufacturing

《微纳制造期刊》

- ◆ 这本季刊主要发表微纳制造理论、生产流程、设备开发、精准度、材料利用率、产品生命周期分析等方面的研究论文和技术快报。此外，还鼓励发表涉及生物医学设备、药品制造、水和能源等新兴领域的文章。
- ◆ 范围，包括但不限于：单位微米和纳米制造工艺；混合制造工艺；高通量微米和纳米制造工艺；复合材料的微观力学、表面光洁度、铣削、切割、微晶、3D打印等。
- ◆ 访问网址：
<https://asmedigitalcollection.asme.org/micronanomanufacturing>



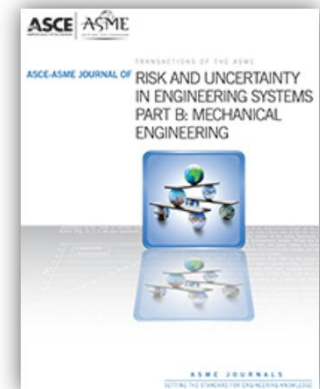
影响因子: 1.0

CiteScore: 2.4

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

《工程系统中的风险和不确定性, B辑: 机械工程》

- ◆ 2015年, ASCE (美国土木工程学会) 和ASME合作创办了《工程系统中的风险和不确定性》系列期刊, 研究对象是工程师在规划、设计、分析、建造、制造、操作和全过程管理中遇到的各类不确定因素。其中A辑针对土木工程, B辑针对机械工程。
- ◆ 访问网址: <https://asmedigitalcollection.asme.org/risk>



影响因子: 2.2

CiteScore: 3.9

ESCI (新兴学科索引) 收录期刊

❑ Journal of Nuclear Engineering & Radiation Science

《核工程和放射学期刊》

- ◆ ASME 在能源领域的最新刊物。面向工业界、学术界和政府的核/电力工程领域的专家。
- ◆ 本刊的作者和编辑群体中有来自核工业和能源业相关的政府机构和企业、如美国西屋电气公司、印度巴巴原子研究中心、俄罗斯水压试验设计院 (OKB Hidropress)、中国核动力研究设计院等。
- ◆ 范围, 包括但不限于: 下一代反应堆和先进反应堆; 热工水力学; 计算流体动力学和耦合代码; 反应堆物理和输运理论; 核燃料和材料; 燃料循环、放射性废物管理和退役; 仪表与控制; 核安全与安保; 超越设计基础事件; 规范、标准、许可和监管问题; 辐射防护与核技术应用; 工厂运营、维护、工程、改造和生命周期; 工厂系统、构造、结构和部件; 核教育、公众接受度及相关问题; 聚变工程; 小组讨论会。
- ◆ 访问网址:

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



影响因子: 0.4

CiteScore: 1.2

ESCI（新兴学科索引）收录期刊

□ Verification、Validation and Uncertainty Quantification 《校核、验证和不确定性量化期刊》

检索关键词：

- ◆ 标准的校核；解决方案的验证；不确定性量化；裕度量化；模型预测；模型适当度；模型成熟度；模型逼真度；模型不确定性的敏感度分析；偶发不确定性；认知不确定性；实验的不确定性；测量的不确定性；产能预测；征状识别和排序表（PIRT）的建立；预期使用途径；模拟使用情景；监管学；比较器。

- ◆ 访问网址：<https://asmedigitalcollection.asme.org/verification>



影响因子：0.6

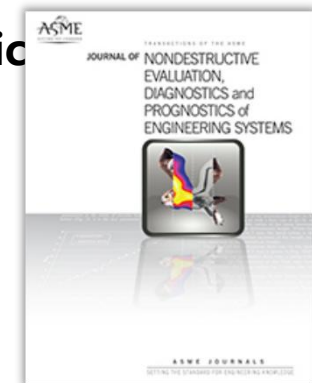
CiteScore：1.8

□ Journal of Nondestructive Evaluation、Diagnostics and Prognostics of Engineering System 《工程系统的无损评估、检测和预测期刊》

检索关键词：

- ◆ 传感器；电子硬件；测试方法；诊断特征提取；损伤分类；诊断决策支持；预后；使用寿命预测；电子；系统；核和近海工程；恶劣或极端的环境；电力系统；材料测试；制造工艺；产品质量控制；工程系统中的故障和失效分析。

- ◆ 访问网址：<https://asmedigitalcollection.asme.org/verification>



影响因子：1.1

CiteScore：2.8

□ ASME Journal of Engineering for Sustainable Buildings and Cities 《ASME 可持续建筑与城市工程期刊》

◆ 应用领域：

关注城市可持续发展工程领域、涉及集成创新技术、相关建筑构件和能源设备、建筑能源建模工具、高效组合与电力、经济高效的建筑专用储能系统、以及建筑物内操作机械能系统的先进的优化控制和策略等。

◆ 访问网址：

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

◆ 投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=34&Journal=JESBC>



2020年新刊

□ Journal of Autonomous Vehicles and Systems 《自动驾驶车辆和系统期刊》

◆ 本刊的重点是自动驾驶车辆的系统建模、仿真和设计。

◆ 应用领域：

人工智能和机器学习应用于自动驾驶汽车；人工智能模仿人类智能进行自我操作、共享心智和协作的多物理环境模型；用于自主操作、规划、全球定位、导航和定位、决策、控制和观察的智能感知和认知架构；建模、仿真和设计自动驾驶汽车系统、以实现不同级别的自动驾驶；Vehicle-to-X 交互；操作员与车辆的交互；主动有效载荷模型；自主车辆模拟和设计中的输入/输出和环境模型；包括但不限于货物运输、建筑和林业、农业、科学研究、调查地下空气和水、其他行星的勘探、基础设施检测、监视和军事等。

◆ 访问网址：

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

◆ 投稿入口

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=37&Journal=JAVS>



2021年新刊

□ ASME Letters in Dynamic Systems and Control 《ASME 动态系统与控制快报》

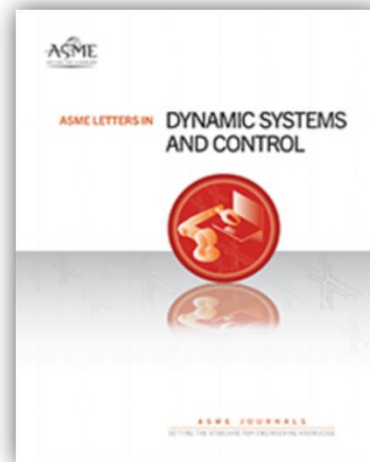
- ◆ 本刊提供来自动力学和控制领域的高质量、前沿的一些理论或应用课题，并将发表动态系统和控制研究领域的最新技术，重点关注动态系统和控制领域相关主题。
- ◆ **应用领域：**汽车系统、生物医学工程、动力系统与控制、能源、环境工程、内燃机、制造与加工、纳米技术、噪声控制与声学、海洋、近海与北极工程、可再生能源、机器人与机电一体化、交通运输。

◆ 访问网址：

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2021年新刊

□ ASME Open Journal of Engineering 《ASME 开放工程期刊》

本刊是一本快速周转、多学科、开放获取且经过严格同行评审的出版物。

- ✓ 高影响力的创新文章，扩大了ASME传统期刊的范围，包括新兴领域交叉或多学科研究。
- ✓ 涉及与机械工程及相关学科的原创性研究成果。
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□ Mechanical Engineering Magazine Select Articles 《机械工程杂志精选文章》

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2000至今 ASME Proceedings

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GT 涡轮博览会

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IMECE 国际机械工程大会和博览

JRC ASME/IEEE联合轨道大会

SMASIS 智慧材料、自适应结构和智能系统会议

OMAE 国际近海土壤力学和极地工程会议

PVP ASME压力容器和管线会议

ICONE 国际核工程会议

MSEC 国际制造科学和工程会议

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知名会议



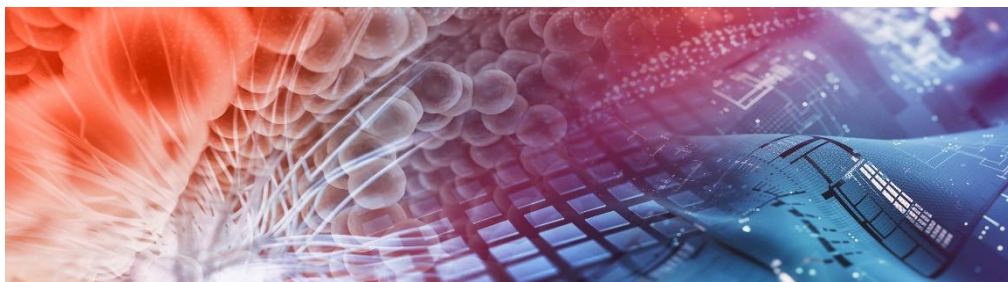
Turbo Expo: Turbomachinery Technical Conference and Exposition (GT)

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航天器引擎和风机、涡轮机械、微型涡轮、涡轮增压器和小型涡轮机械、结构和动力学、制造的材料和冶金、控制、诊断和仪器化、燃烧、燃料和排放、煤、生物质和新型燃料、电能、传热、油气应用、风能等。



Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS)

智慧材料、自适应结构和智能系统会议

(数据库收录2008年至今的会议录)

会议录涉及主题:

多功能材料、放射性材料的力学和特性、集成系统的设计和使用、结构健康性监测、建模、模拟和控制、仿生智慧材料 和系统、能量收集等。

知名会议



International Mechanical Engineering Congress & Exposition (IMECE)
国际机械工程大会和博览
(数据库收录2002年至今的会议录)

会议录涉及主题:

航空技术的新发展、先进制造、生物医学和生物技术、动力学、振动和控制、能源、流体工程、传热和热能工程、微纳系统工程和封装、交通系统、新兴技术、声学、振动和波传播、无损检测和预测、教育和全球化等。



Joint Rail Conference (JRC) 联合轨道大会
(数据库收录2002年至今的会议录)

会议录涉及主题:

轨道基础设施建设、铁轨设备工程、信号和列车控制、规划和发展、安全性和安保、能源效用和可持续性、电气化、列车与轨道的相互作用等。



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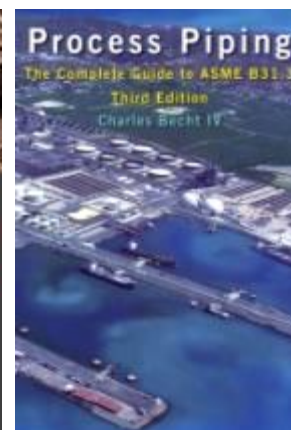
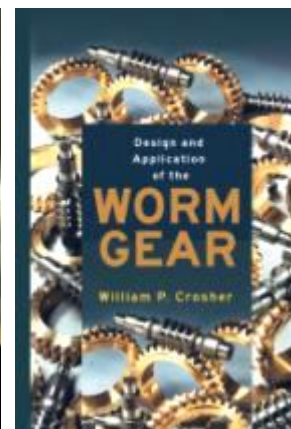
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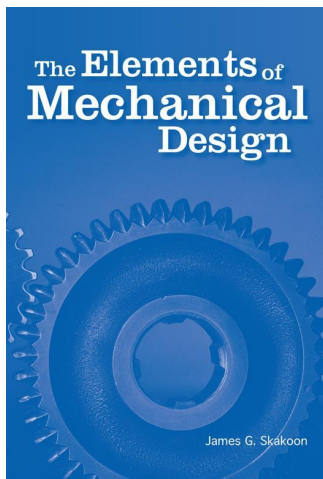
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The Elements of Mechanical Design 《机械设计要素》

主要作者：James Skakoon，机械设计师、发明家；退休前就职于美国工程顾问公司Vertex Technology。

内容概要：这本书简洁好读，对任何有意了解机械设计基本原理和实践方法的专业人士来说，都是可以用来复习充电的优质读物。

作者在书中融合了自己的从业经验和其他专家的做法，来表明什么是优秀机械设计的原理和实践方法。这样，读者就不必自己去总结提炼这些基础知识和概念，也能够运用到自己工作中了。

亚马逊书评：

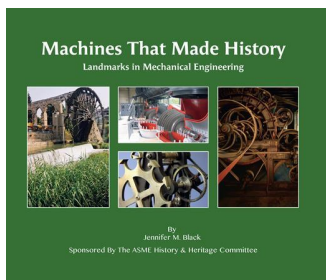
很好地总结了机械设计中的规则。大考前帮助我回顾了很多概念。

把诸多信息浓缩在一本书中、其中的实例也把概念讲透了，做得很好.....

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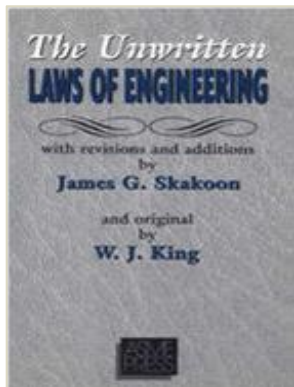
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Machines That Made History: Landmarks in Mechanical Engineering 《创造历史的机械》

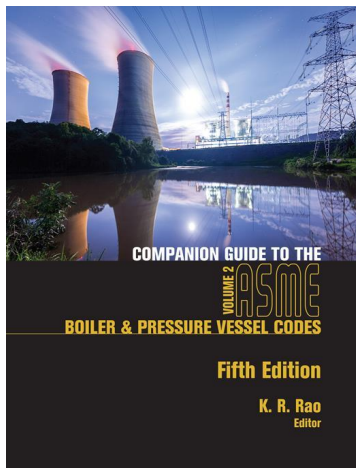
这是一本以彩色和黑白照片为主的精装书，介绍了机械工程历史上的100个具有里程碑意义并且对世界文明有重大影响的产品、设备或创举。这些产品维持着我们现代生活的方方面面，从汽车、火箭到隐藏于城市生活的磁盘驱动、城市水泵和发电涡轮等等。



The Unwritten Laws of Engineering: With Revisions and Additions 《工程学的潜规则》

“顾问和丐利发明家 James Skakoon向工程领域从业者传递了一些恒久不变的行业准则。书中提到的诸多实例，反复说明了人际交往等“软”实力对提升工作表现起着重要作用。读者有机会了解从工程经验中可以获得哪些“软”实力，从而运用到每日工作决策中。”——Amazon 书评

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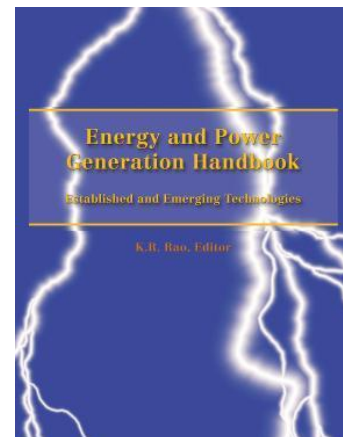


Companion Guide to the ASME Boiler and Pressure Vessel Code 《ASME锅炉和压力容器规范参考指南（第五版）》

第五版指南是经过全面更新和修订的最新ASME BPV规范版本。共有2卷，40个章节。本书解释分析了BPVC规范全部12个部分里的前沿技术和管控措施，并适当加入ASME管线规范和标准的相关内容、成为了核电工程师的经典参考资料。

Energy and Power Generation Handbook: Established and Emerging Technologies 《能源和发电手册：现有技术与新兴技术》

来自全球的50位专家就已知的所有发电方式给出了全面的学术讨论和建议。该手册近700页，包含约1250条参考文献和750多张插图等。



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Design of Mechanical Bearings in Cardiac Assist Devices 《心脏辅助设备中的机械轴承设计》

机械性心脏辅助设备依靠旋转叶轮来加强供血、支撑这一旋转结构的机械轴承就显得尤为重要。本书为机械轴承的重要设计原则和评价原则提供了完整综述、尤其注重于第二代和第三代心室辅助器（VAD）。

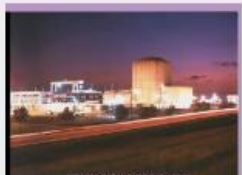
Biomedical Applications of Vibration and Acoustics in Therapy, Bioeffect and Modeling 《应用于医疗、生物效应和建模的震动和声学》

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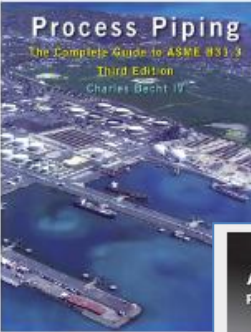


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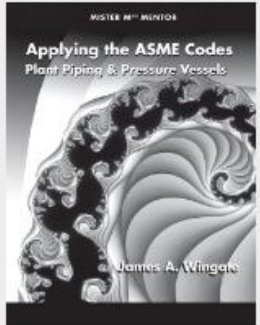
Companion Guide to the ASME Boiler & Pressure Vessel Code, Volume 2, Second Edition: Criteria and Commentary on Select Aspects of the Boiler & Pressure Vessel and Piping



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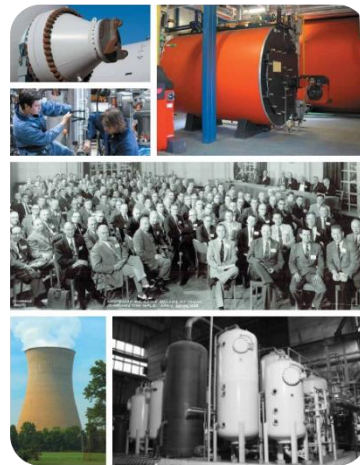
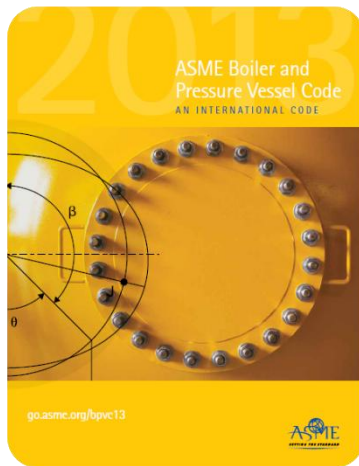
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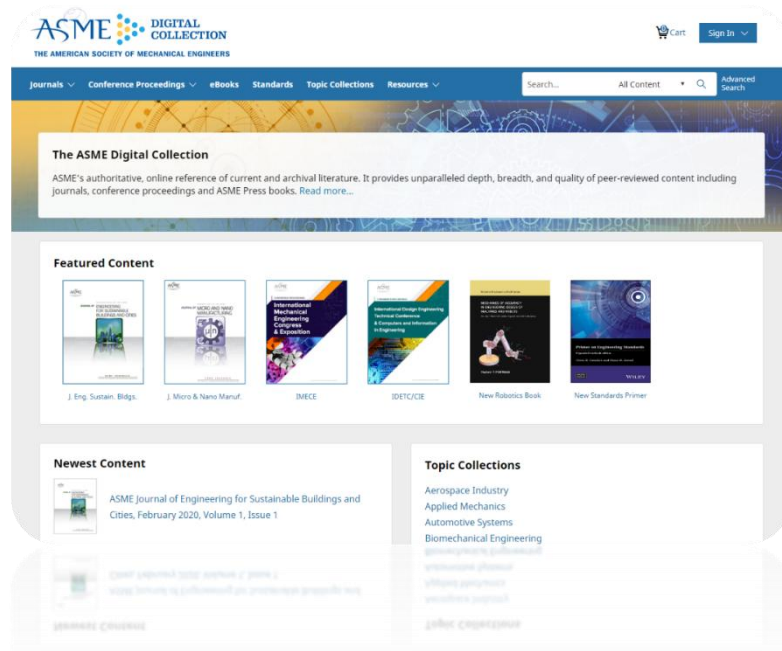
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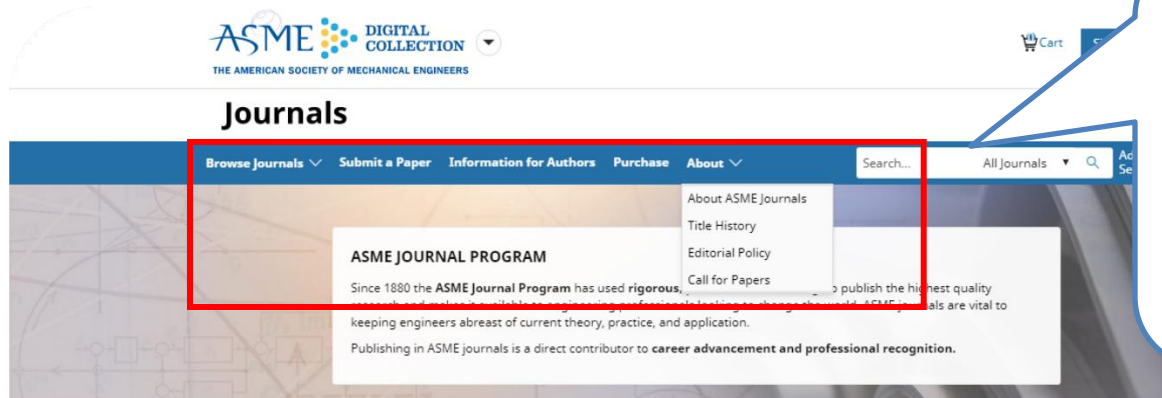
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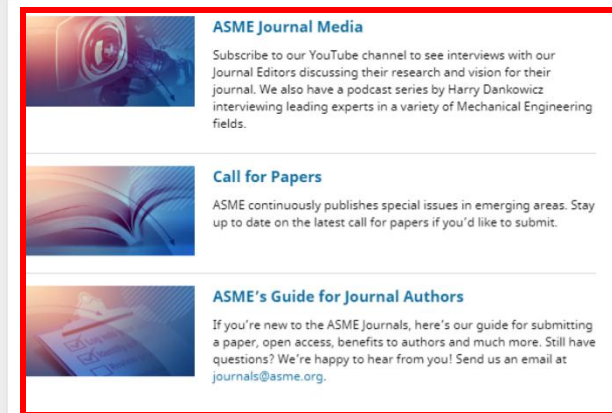
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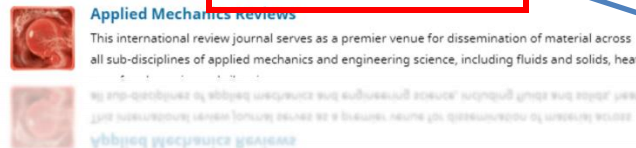


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RESEARCH PAPERS

A Novel Methodology for Combined Parameter and Function Estimation Problems



Hosein Molavi, Ali Hakkaki-Fard, Ramin K. Rahmani, Anahita Ayasoufi, Mehdi Molavi



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J. Heat Transfer. Dec 2010, 132(12): 121301 (11 pages)

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Keywords: conjugate gradient methods, heat conduction, Box-Kanemasu method, conjugate gradient method, function estimation, parameter estimation

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Volume 132, Issue 12
December 2010



Sensors, Heat conduction, Inverse problem

Introduction

The object of an inverse heat conduction problem is the estimation of unknown functions or parameters (e.g., thermophysical properties) appearing in the mathematical model, given the measured temperature histories of a heat-conducting space along with a computational "estimator" algorithm. This happens when the direct measurement of boundary conditions or of the thermophysical properties of a system is unfeasible. The IHCP is considered to be a "difficult" problem (1) as the unavoidable noise imbedded in the data can produce large or even unbounded deviations in the solution. This is due to "ill-posed" nature of the IHCP (1). In general, solution of the IHCP involves minimization of a sum of squared error function, which is defined based on the difference between the calculated and the measured temperatures (2). The thermal coefficients (i.e., thermophysical properties, boundary or initial conditions) that minimize the aforementioned error function are the solutions of the IHCP. An excellent review of literature and comprehensive bibliography on the

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2. Hakkaki-Fard, A., and Kowsary, F., 2008, "Heat Flux Estimation in a Charring Ablator," *Numer. Heat Transfer, Part A* 104(1), pp. 543-560.

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3. A. T. T. , 1994, *Inverse Heat Transfer*, Wiley, New York.

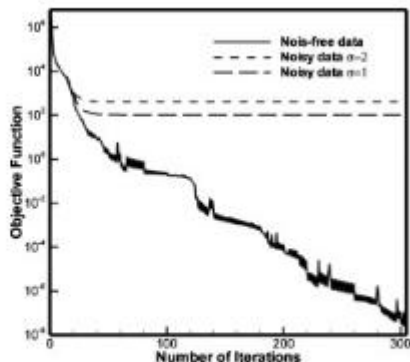
k, J. V. , and Arnold, K. J. , 1977, *Parametric Analysis of Engineering and Science*, Wiley, New York.

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Table 1

Effect of sensors arrangements on the results (test case 1)

Configuration	Value of objective function	No. of iterations
I	5×10^{-9}	356
II	9×10^{-9}	323
III	2.37	500

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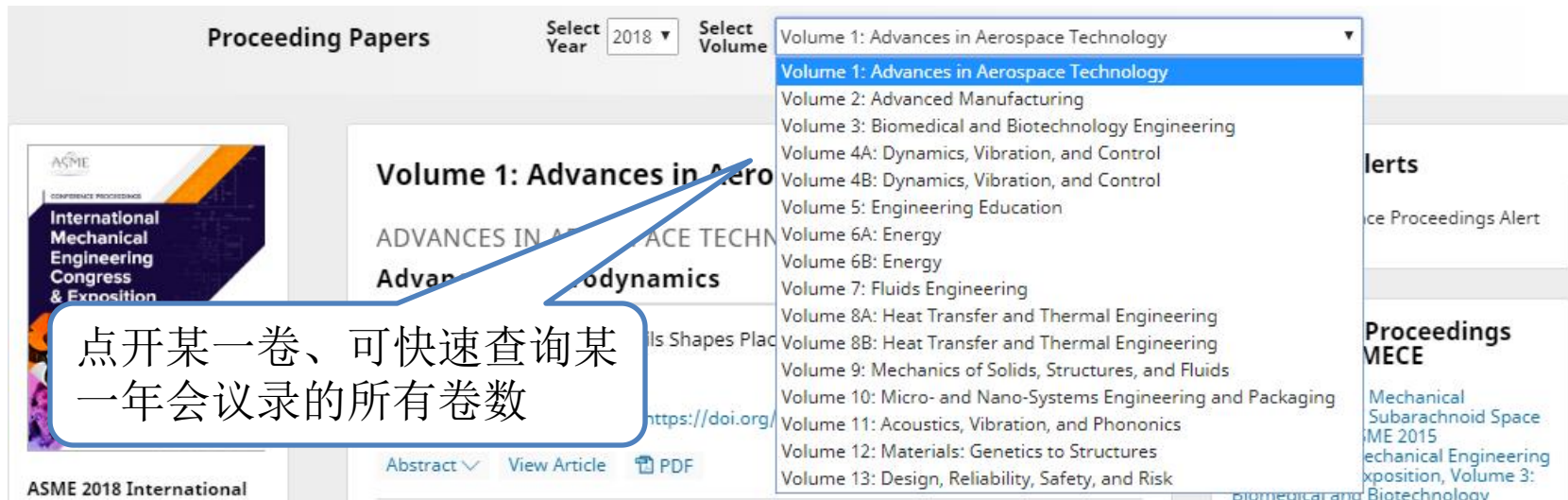
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Advances in Aerodynamics

Solution to Optimize the Airfoils Shapes Placed Into a Supersonic Viscous Flow ✓

[Victorita Radulescu](#)

IMECE 2018; V001T03A001 doi: <https://doi.org/10.1115/IMECE2018-86781>

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[Jun Li, Zhigang Li, Liming Song, Qinghua Deng](#)

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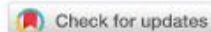
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Solution to Optimize the Airfoils Shapes Placed Into a Supersonic Viscous Flow ✓

Victorita Radulescu



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Victorita Radulescu

University Politehnica of Bucharest, Bucharest, Romania

Paper No: IMECE2018-86781, V001T03A001; 13 pages

<https://doi.org/10.1115/IMECE2018-86781>

Published Online: January 15, 2019

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To improve the airfoils performances placed in supersonic flow is proposed a method of optimization for their shapes, in order to minimize the effect of the landing vortices. The theoretical modeling starts with the Navier-Stokes equations applied for thin layers, supplemented with additional conditions related to the profile shape. For a proper estimation of efficiency and responses at different flow regime's conditions, were considered four aerodynamics airfoils, with different shapes and functioning characteristics. Two of them are special shapes for supersonic profiles and the other two deduced by them.

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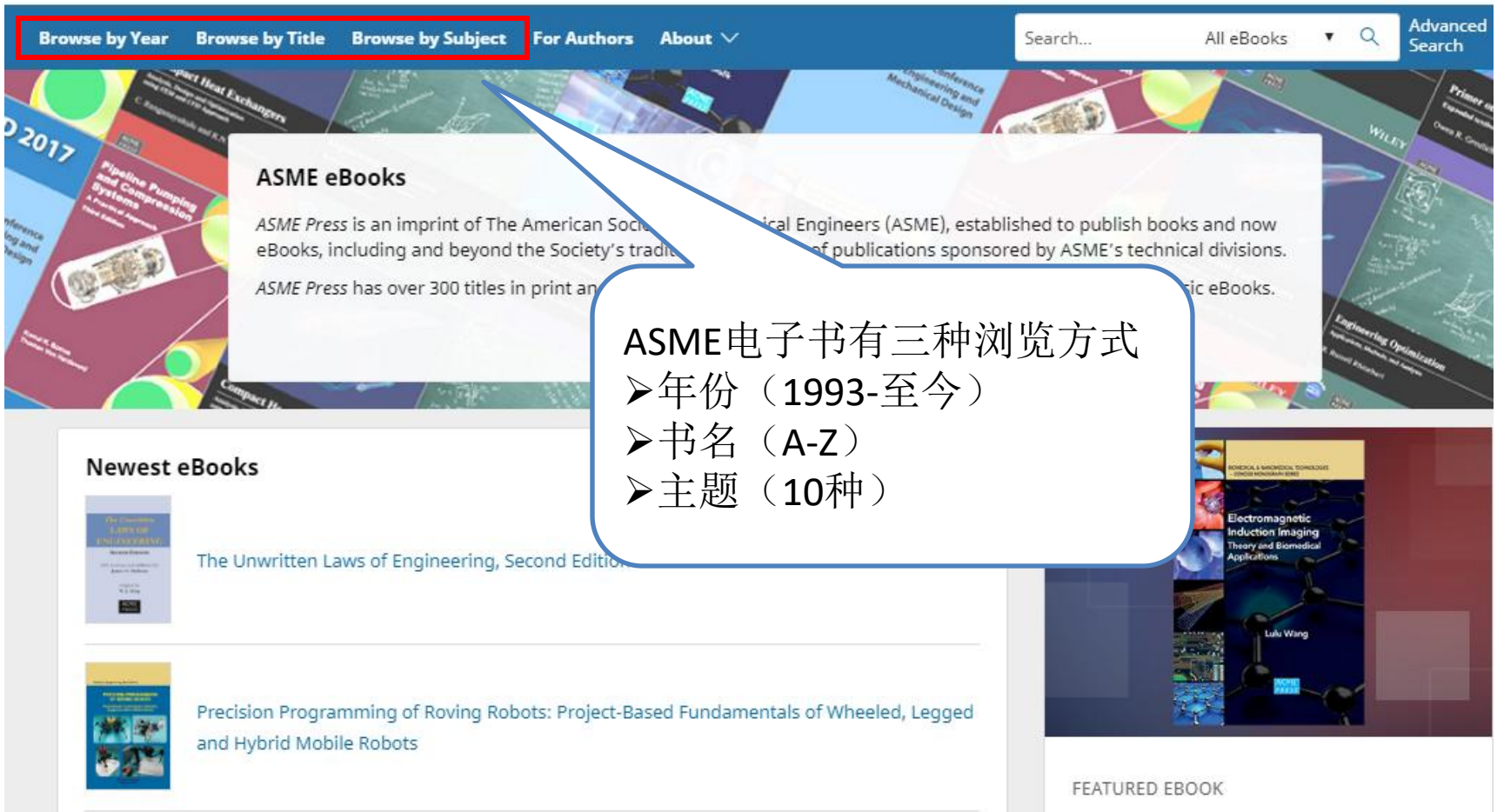
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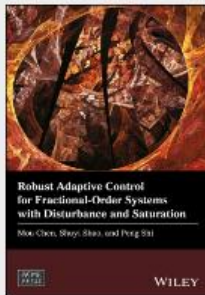
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Robotics 机器人学

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Robust Adaptive Control for Fractional-Order Systems with Disturbance and Saturation ✓

By [Mou Chen, Shuyo Shao, Peng Shi](#)

ISBN: 9781119393276

No. of Pages: 252

DOI: <https://doi.org/10.1115/1.861RAC>

Publisher: ASME-Wiley

Publication date: 2018

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Description

Robust Adaptive Control for Fractional-Order Systems, with Disturbance and Saturation provides the reader with a good understanding on how to achieve tracking control and synchronization control of fractional-order nonlinear systems with system uncertainties, external disturbance, and input saturation. Although some texts have touched upon control of fractional-order systems, the issues of input saturation and disturbances have rarely been considered together.

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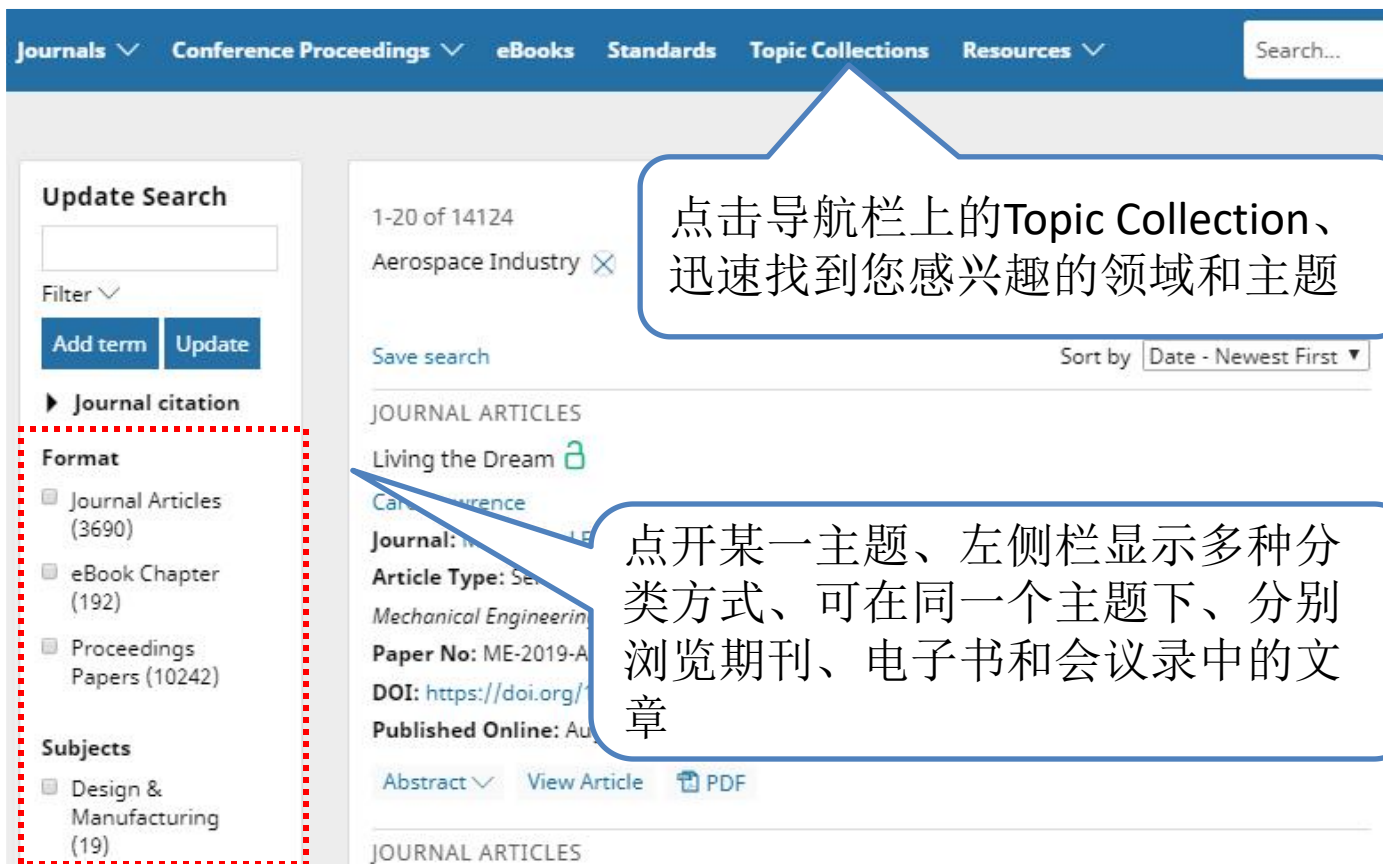
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Nondestructive Evaluation 无损评估

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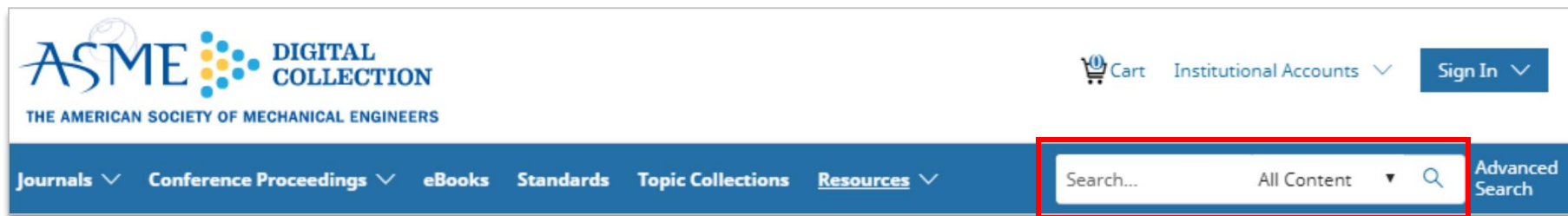
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Kan Sun, Yongjia Wu, Huan Qi, Zhiwei Wu, Lei Zuo

Proc. ASME, IDETC-CIE2019, Volume 4: 24th Design for Manufacturing and the Life Cycle Conference; 13th International Conference on Micro- and Nanosystems, V004T05A012, August 18-21, 2019

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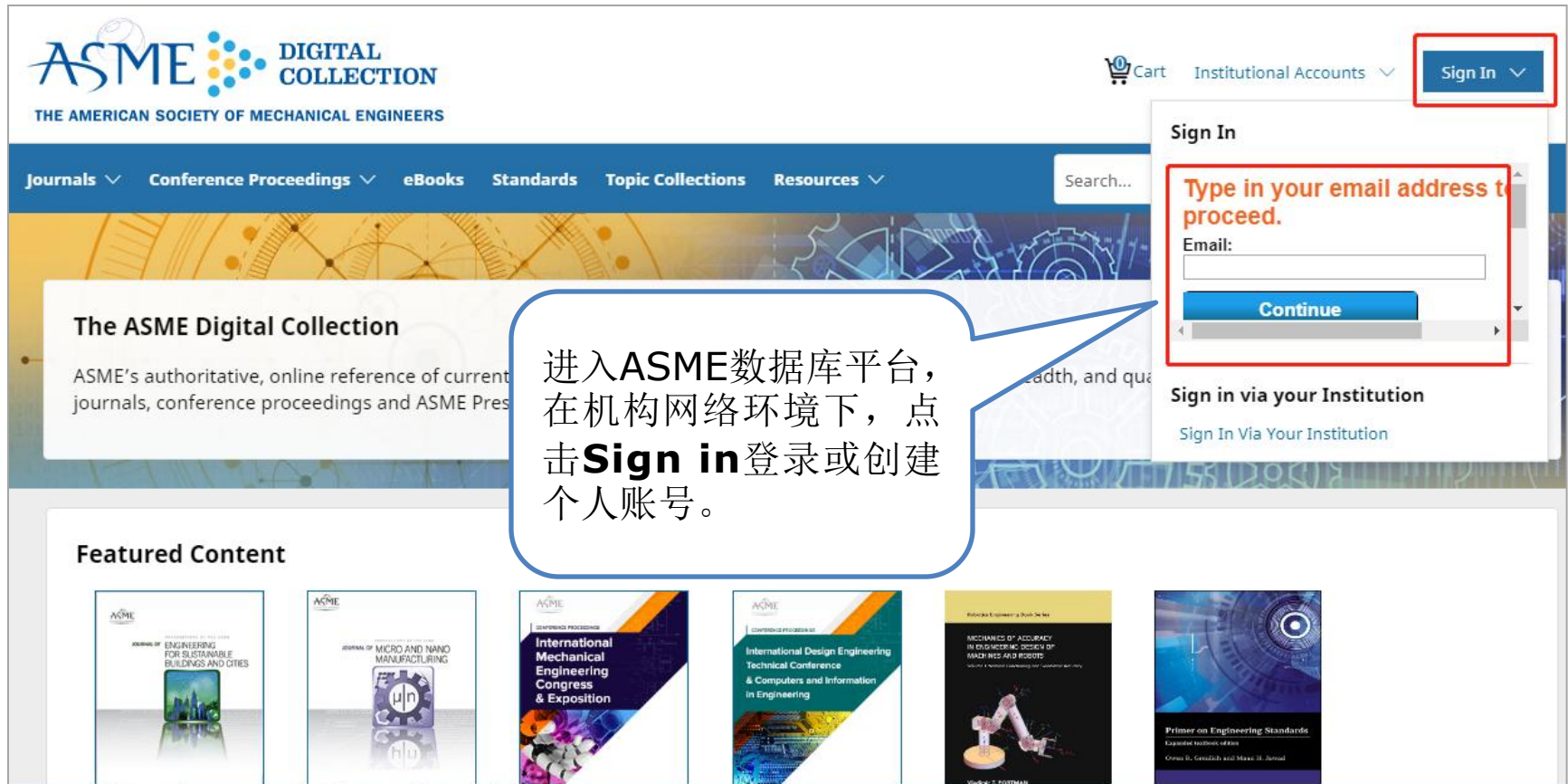
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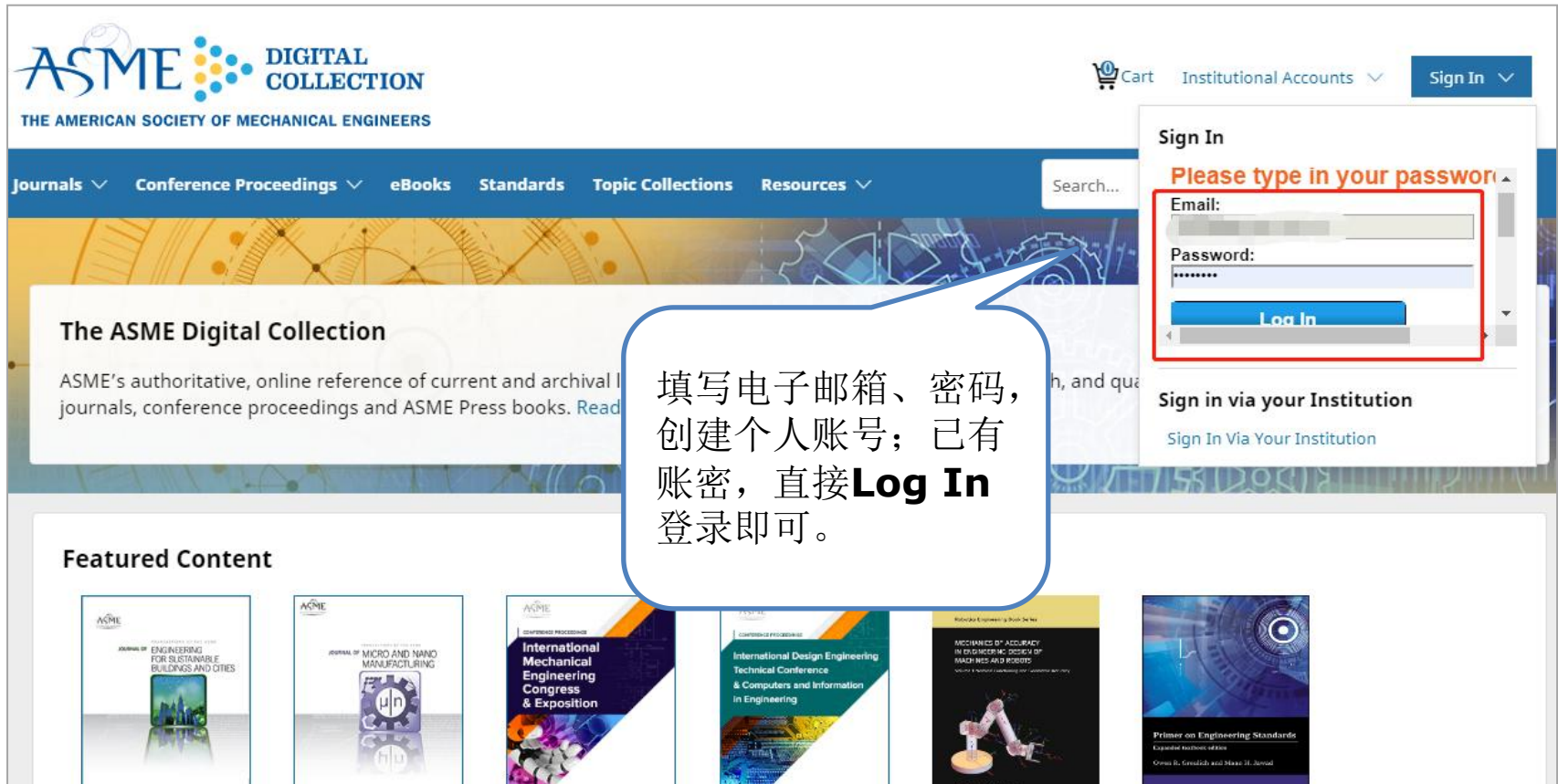
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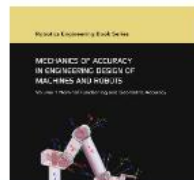
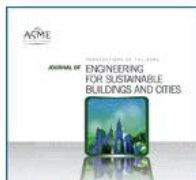


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Updated: 7/1/2020

ASME is monitoring the Coronavirus (COVID-19) situation to ensure the health and safety of our meeting and conference participants, as well as our staff. We will also be monitoring the recommendations from the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) as the situation progresses.

As of this date, the conference is currently scheduled to take place. Please continue your work in the expectation that the If there are any changes to these plans, we will provide updates on this website. We understand that you will have questions, so please check back periodically. Thank you.

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