



iGroup

ASME（美国机械工程师学会）数据库 使用指南

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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。



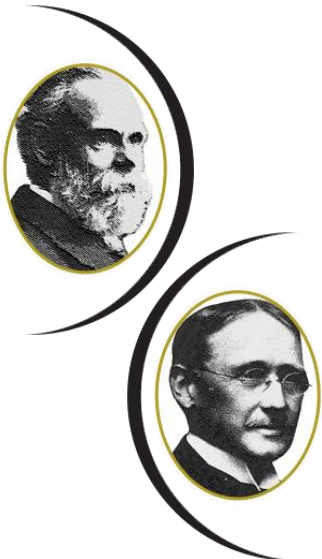
ASME 宗旨



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： 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 & Codes

期 刊

会议录

电子书

标 准



NEW

ASME 出版物



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



期刊

[Browse Journals](#) ▾ [Submit a Paper](#) [Information for Authors](#) [Purchase](#) [About](#) ▾



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：**35种**

SCI 收录：**25 种**

更新频率：**每年200多期**

收录年限：**1959 年至今**

(现刊起始于2000年)

最新创刊：《**ASME 开放工程期刊**》**2022 新刊待上线！**

《**自动驾驶车辆和系统期刊**》**NEW IN 2021**

《**ASME动态系统与控制快报**》**NEW IN 2021**

最高影响因子：**7.281** 《**应用力学评论**》

最高引用次数：**15,904+** 《**应用力学期刊**》

14,382+ 《**传热期刊**》

期刊

- 35种期刊，4种属于SCI一区和二区（Q1、Q2）
- 2015至2018年，先后有10种期刊提高了出版频率
- 每篇文章都经过严格的评审流程
- 影响因子：根据近五年的JCR《期刊引用报告》，ASME期刊影响因子持续上涨，五年刊均影响因子约2.2
- 2021年发布的最新JCR公布，5种期刊影响因子涨幅超过20%。

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

经典期刊

□ 《传热期刊》 Journal of Heat Transfer

在 SCI 收录的 130 多本机械工程类期刊中，**总引用量14,382**，**排名前二十**，应用于能源、燃气涡轮、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 (生物热)、radioactive heat transfer (辐射传热)、mass transfer (质量传递)、热传导 (heat conduction)、electronic and photonic cooling (光子冷却)、forced convection (强制对流)、exchanger (热交换器)、wake cooling (尾迹冷却)、jets cooling (喷射冷却)、impingement cooling (冲击冷却)、porous media (多孔介质)、thermal systems (热力系统)、two-phase flow and heat transfer (两相流动和热传递)

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

经典期刊

□ 《传热期刊》 Journal of Heat Transfer

国内外研究人员单位：

麻省理工学院

斯坦福大学

普渡大学

明尼苏达大学

德克萨斯A&M大学

加州大学

密苏里大学

哈尔滨工业大学

西安交通大学

大连海事大学

兰州交通大学



经典期刊

□ 《应用力学评论》 Applied Mechanics Reviews

在 SCI收录的 130多种力学类期刊中，属于Q1分区，影响因子7.281，排名第五，五年刊均影响因子8.949。

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 (震动)、 education (教学培训)、 thermal coupling (热耦合)、 aerodynamic (气动力)、 bearing system (轴承系统)



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

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

加州理工大学

普渡大学

华盛顿大学

德克萨斯A&M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



经典期刊

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

属于SCI机械工程类的Q2期刊、五年刊均影响因子 3.602

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



检索关键词：

design automation、 virtual reality、 geometric design、 design optimization
design sensitivity analysis、 sustainable design 、 market systems、
gears、 fluid、 component smart products、 life cycle、 DFX decision analysis、
design cognition、 design synthesis

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

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



期刊

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

2016年起发行

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>

投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=29&Journal=VVUQ>

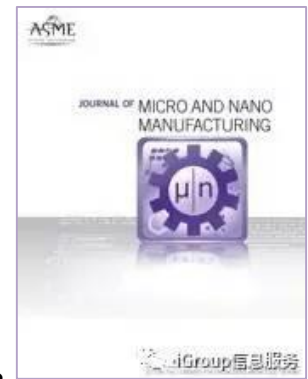


期刊—SCI和ESCI收录！

2016年又有一种新刊被SCI收录、一种被ESCI（新兴学科索引）收录。SCI期刊数量达到25种。

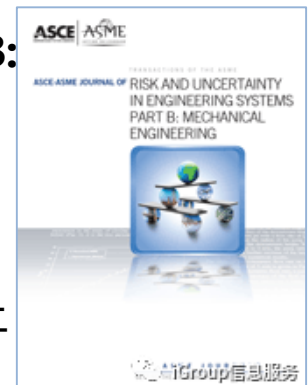
□ Journal of Micro and Nano-Manufacturing 《微纳制造期刊》

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。自2013年创刊以来，已出版31期、共290多篇文章，探讨话题包括复合材料的微观力学、表面光洁度、铣削、切割、微晶、3D打印等。该刊于2016年起被SCI收录。



□ 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。目前《B辑：机械工程》已出版24期、共260多篇文章。该刊于2016年起被ESCI（新兴学科索引）收录。



期刊 – ESCI收录！

□ Journal of Nuclear Engineering & Radiation Science 《核工程和放射学期刊》

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。主要话题围绕着核电厂运维，如核燃料和材料、新型反应堆建设和维护、运输和防护；核能相关的法规解读；以及核技术在其他方面的应用。



访问网址：

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

投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=28&Journal=NERS>

期刊 – 2018年起加入ASME数据库

- 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》
- ASME Journal of Engineering and Science in Medical Diagnostics and Therapy 《ASME 医学诊疗中的工程和科学期刊》



投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=32&Journal=JESMDT>

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=31&Journal=NDE>

最新期刊— 2020年全新上线！

- ASME Journal of Engineering for Sustainable Buildings and Cities
《ASME 可持续建筑与城市工程杂志》



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。

投稿入口：

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

最新期刊— 2021年全新上线！！！！

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



本期刊旨在为研究和设计在媒介环境（地面，空中，太空和水域）中运行的自动驾驶汽车和系统领域的知识及解决方案提供一个国际交流平台。该期刊重点是车辆的系统级建模、仿真和设计方法。车辆的应用包括但不限于货物运输、建筑、林业、农业、科学研究、地下、空气和水的调查及其他行星的勘探，基础设施监控和军事等。

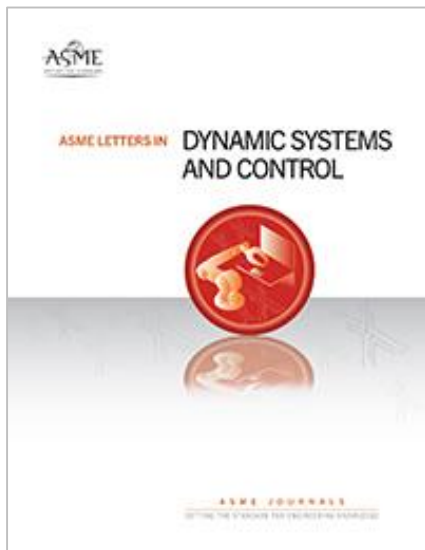
应用领域：人工智能、智能决策，控制和观察、系统模型、自主车辆的建模，仿真和设计、有效载荷模型、自主车辆系统中的本体感受传感器和用于车辆的外部感受传感器、自主车辆与环境的相互作用、室外和网络物理室内试验场和研究设施、自动驾驶汽车仿真设计中的输入/输出及环境模型等。

投稿入口：

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

最新期刊— 2021年全新上线！！！！

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



本刊提供了动力学和控制领域有关理论或应用主题的高质量、前沿的原始发现的快速传播。这本新出版物将发布动态系统和控制研究方面的最新技术，重点是动态系统和控制领域感兴趣的课题。《ASME 动态系统与控制快报》将为全球工程界提供一个交流新兴研究思想的论坛，这些思想将影响动态系统与控制领域的未来工作。

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、运输。

投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=35&Journal=ALDSC>

最新期刊— 2022年待上线！！！！

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

ASME Open Journal of Engineering 是一项多学科、开放获取的初创计划，旨在扩展当前的 ASME 期刊项目组合，以提供涵盖所有 ASME 技术社区的广泛领域的原创研究。新标题将为作者提供高质量、完全开放获取的档案期刊，该期刊具有快速、严格的同行评审和出版功能。多种文章类型，包括传统和新颖的研究论文、综述论文、技术摘要等。

应用领域：涉及航天；应用力学；管理；材料处理；内燃机；安全和风险分析；流体工程；生物工程；材料；传播热量；加工工业；制造业；设计工程；摩擦学；能源资源和发电；核工程；铁路运输；工厂工程和维护；燃气轮机；环境工程；动态系统和控制；先进能源系统；压力容器和管道；机器人与自动化；固体废物处理；太阳能；工程中的计算机和信息；噪音控制和声学；无损评估；电子和光子封装；海洋、近海和北极工程；流体动力系统；微机电；管道系统；纳米技术；可持续工程等领域。

投稿入口：

<https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=38&Journal=AOJE>

会议录

- 每年举办约40场会议，出版约100卷会议资料
- 可订购访问2000年至今的所有会议的资料
- 会议系列超60种
- 会议录数量超1,800卷，文章超过16万篇
- 绝大部分内容被EI（工程信息）和SCI（科学引文索引）收录

2000~now ASME Proceedings

会议录浏览结构

系列名称（如IMECE）

年份（如2017）

卷（如Advanced Manufacturing）

栏目（如Manufacturing and Assembly of Two-Dimensional Materials and Composites）

文章（PDF格式）

文献会议来源示例

GT 涡轮博览会

HT 传热会议

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

IDETC/CIE 国际设计工程技术暨工程中的计算机和信息学会议

知名会议



Turbo Expo: Power for Land, Sea, and Air (GT) 涡轮博览会
(数据库收录2000年至今的会议录, 而1956-1999年的会议录文章均已开放访问)

会议录涉及主题:

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



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。

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)

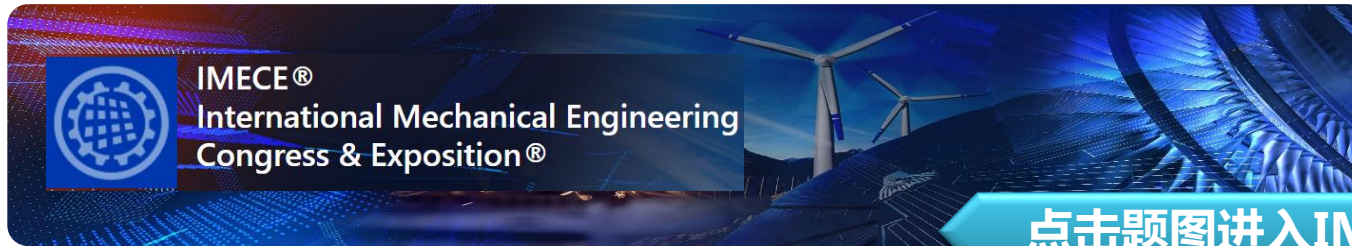


会议录涉及主题：

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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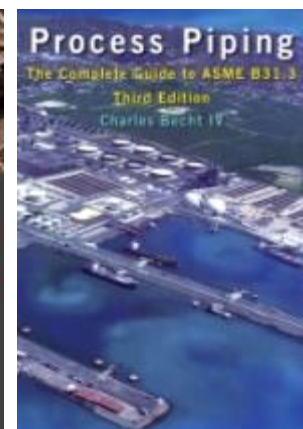
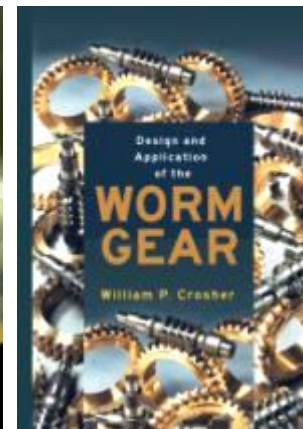
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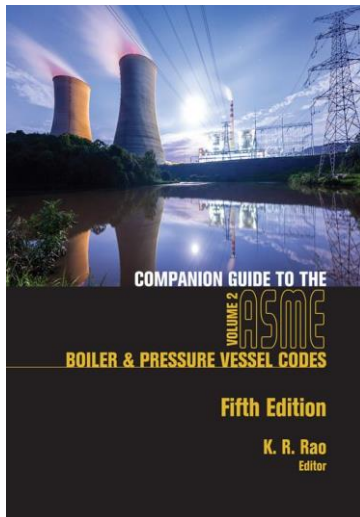


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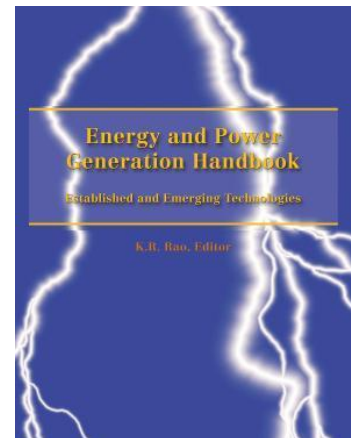


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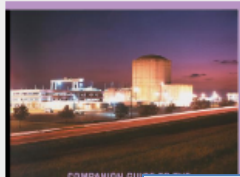
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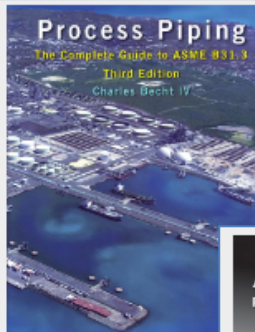


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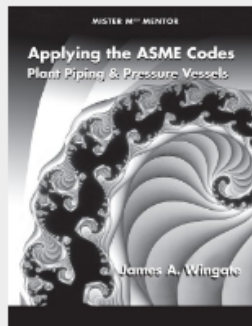
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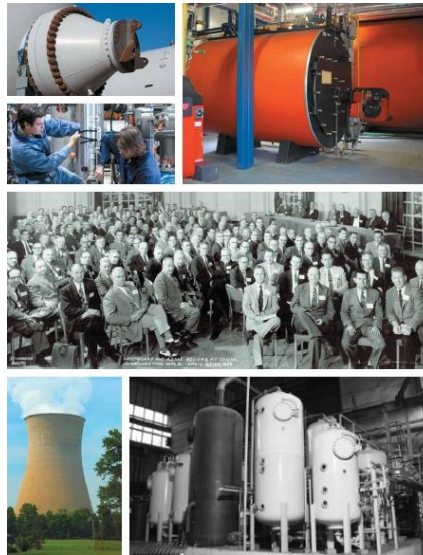
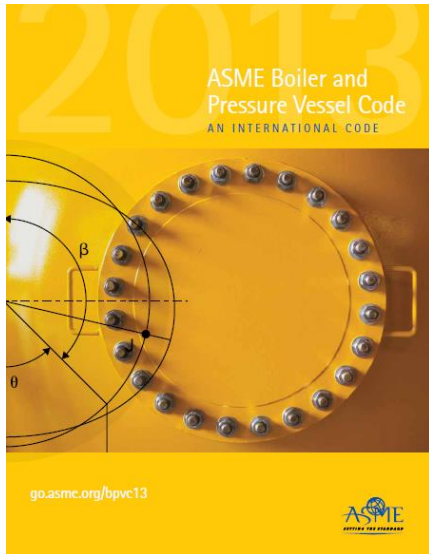
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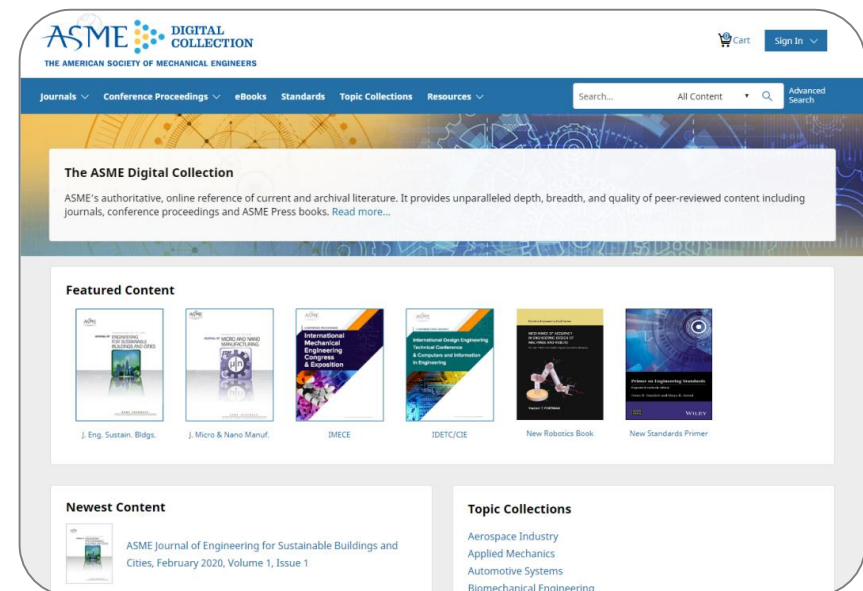
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Keywords: conjugate gradient methods, heat conduction, Box-Kanemasu method, conjugate gradient method, function estimation, parameter estimation

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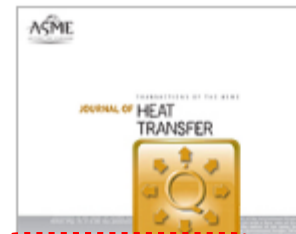
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Sensors, Heat conduction, Inverse problems

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(12), 53, pp. 543-560.

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

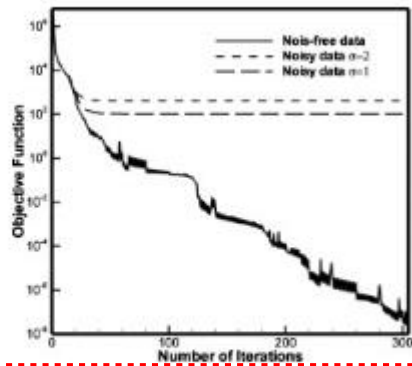
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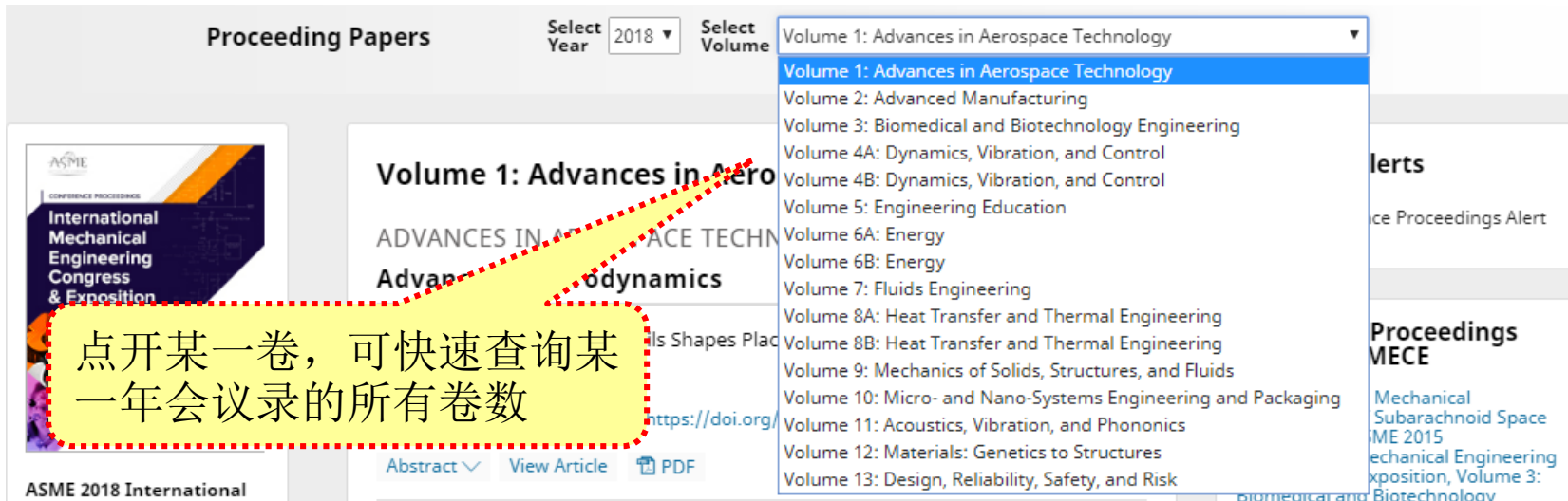
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[Jun Li, Zhigang Li, Liming Song, Qinghua Deng](#)

IMECE 2018; V001T03A002 doi: <https://doi.org/10.1115/IMECE2018-87103> 50

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

Victorita Radulescu



— [Author Information](#)

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: supersonic profiles and the other two deduced by them.

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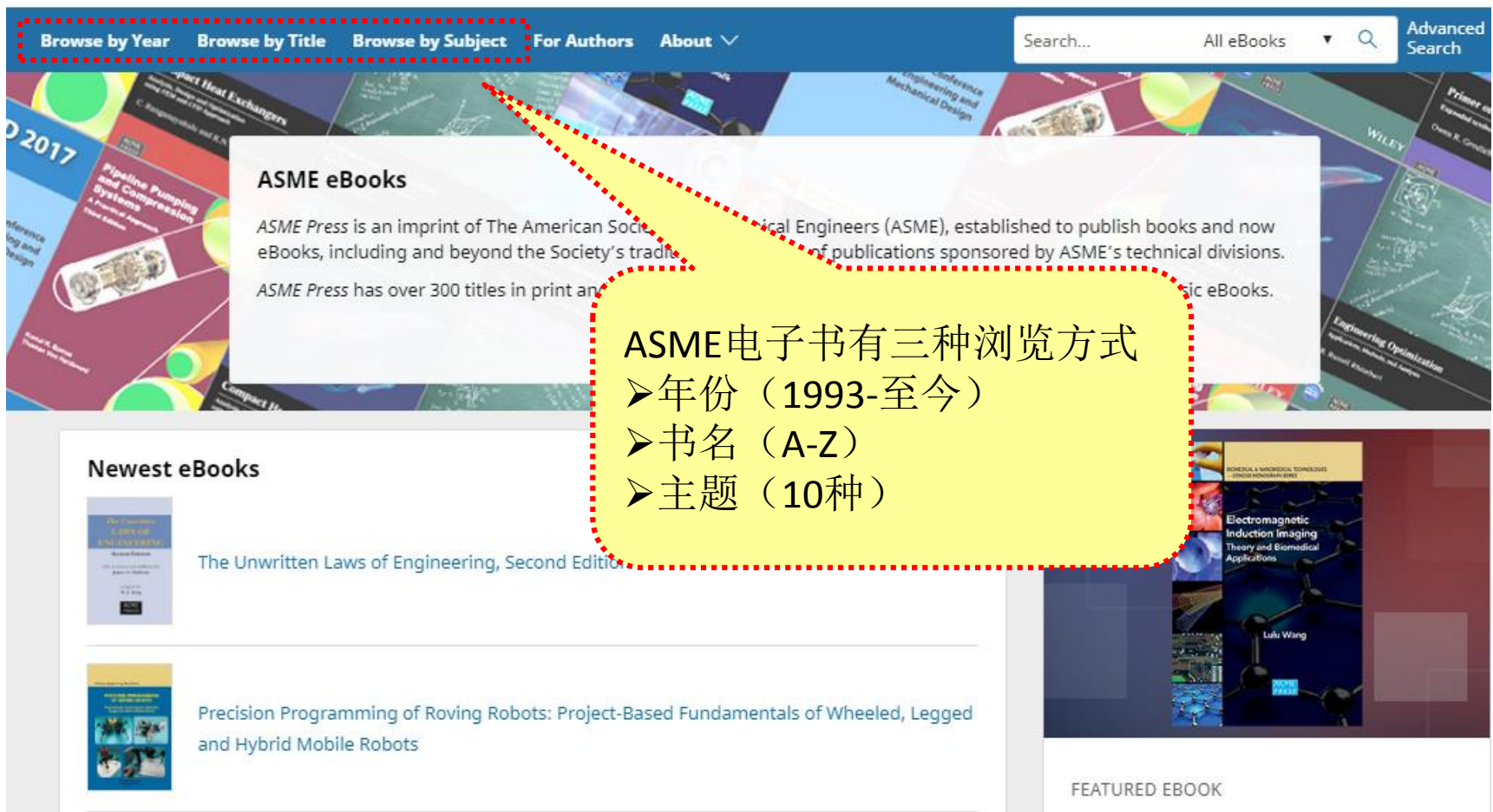
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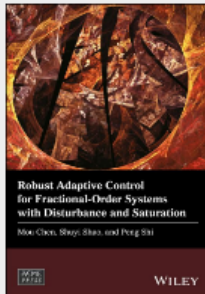
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Robust Adaptive Control for Fractional-Order Systems with Disturbance and Saturation

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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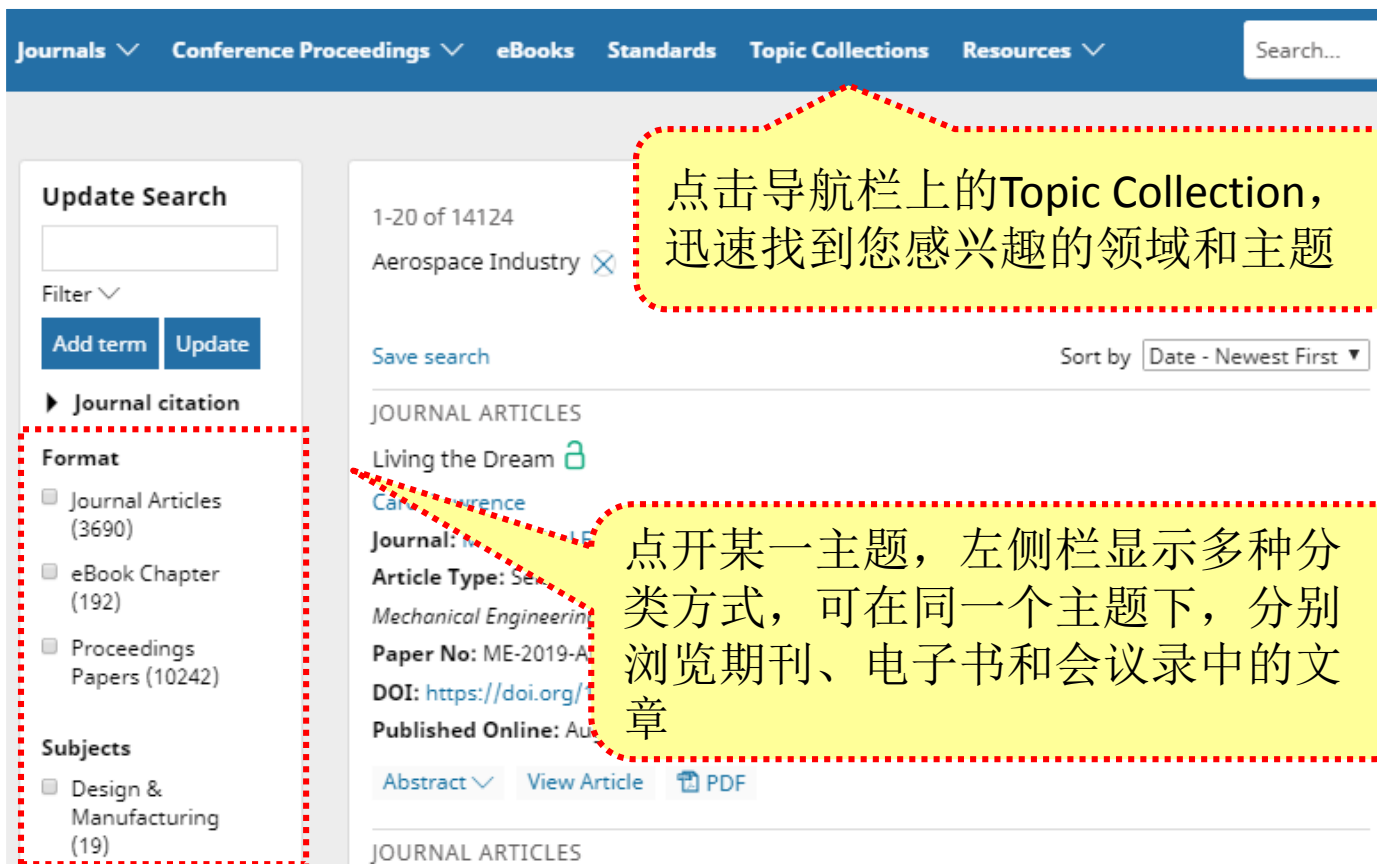
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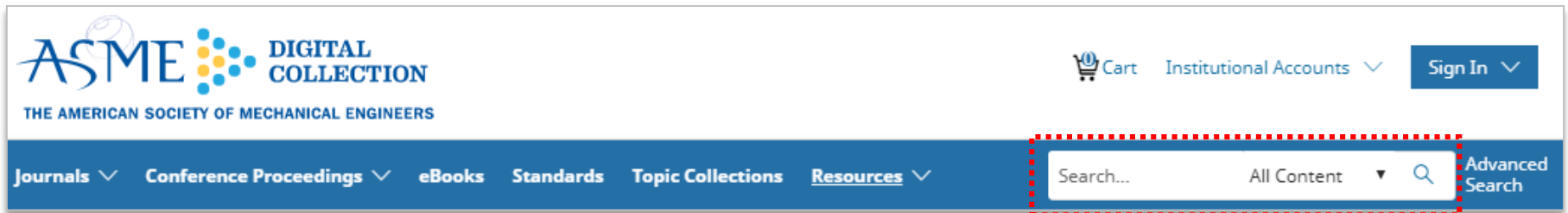
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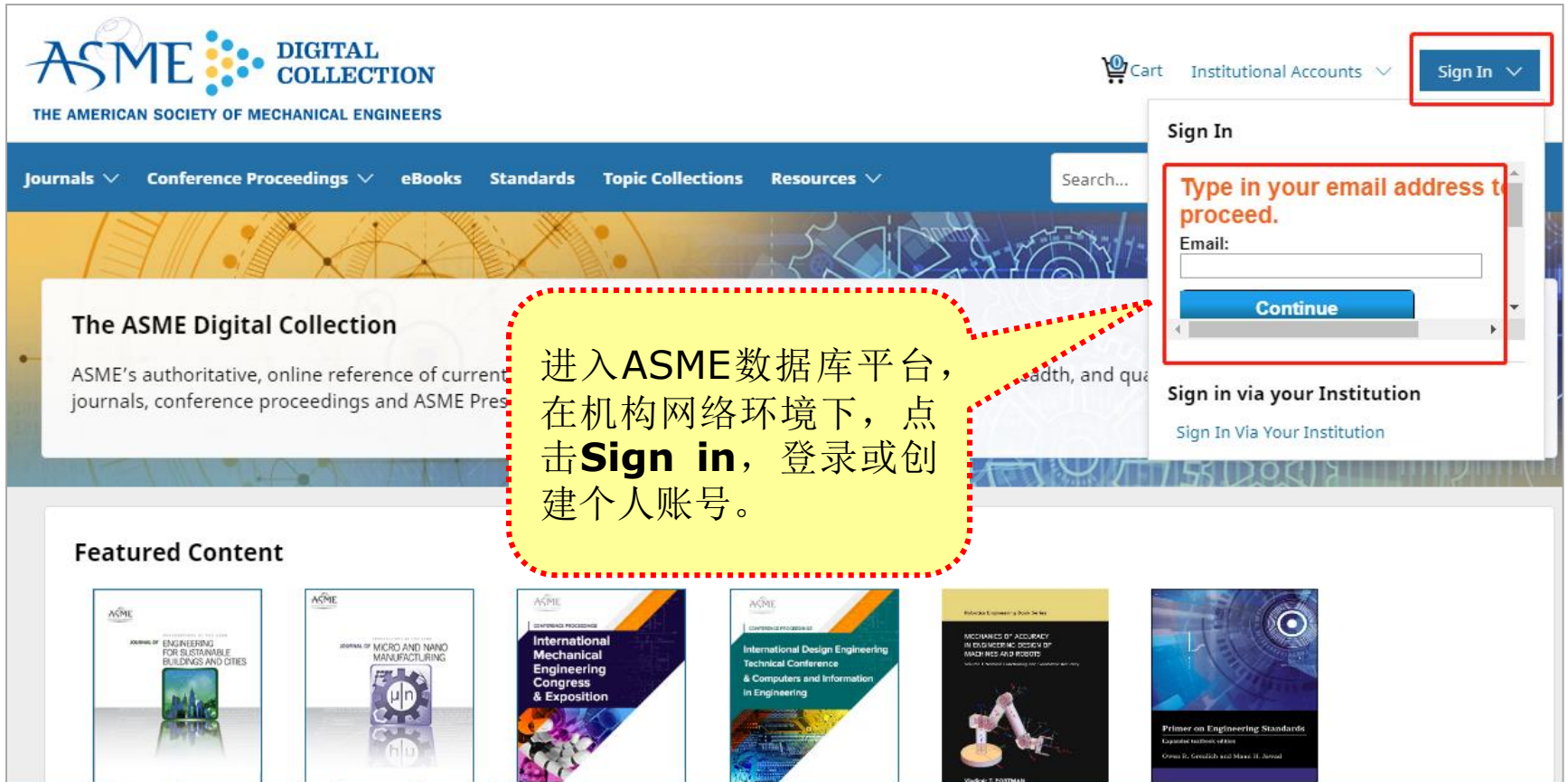
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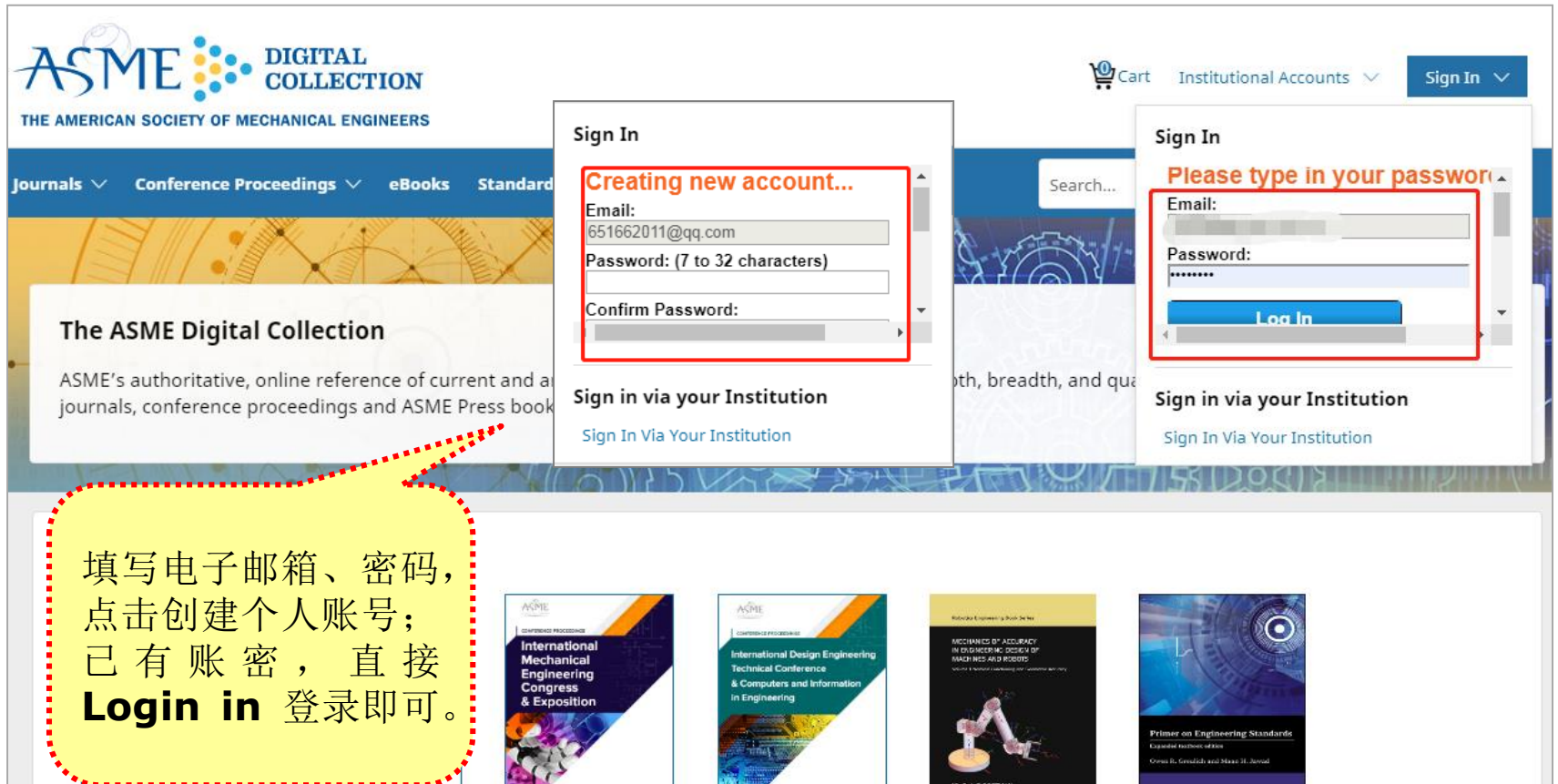


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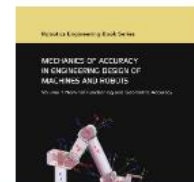
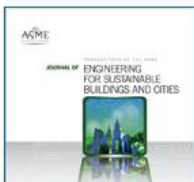


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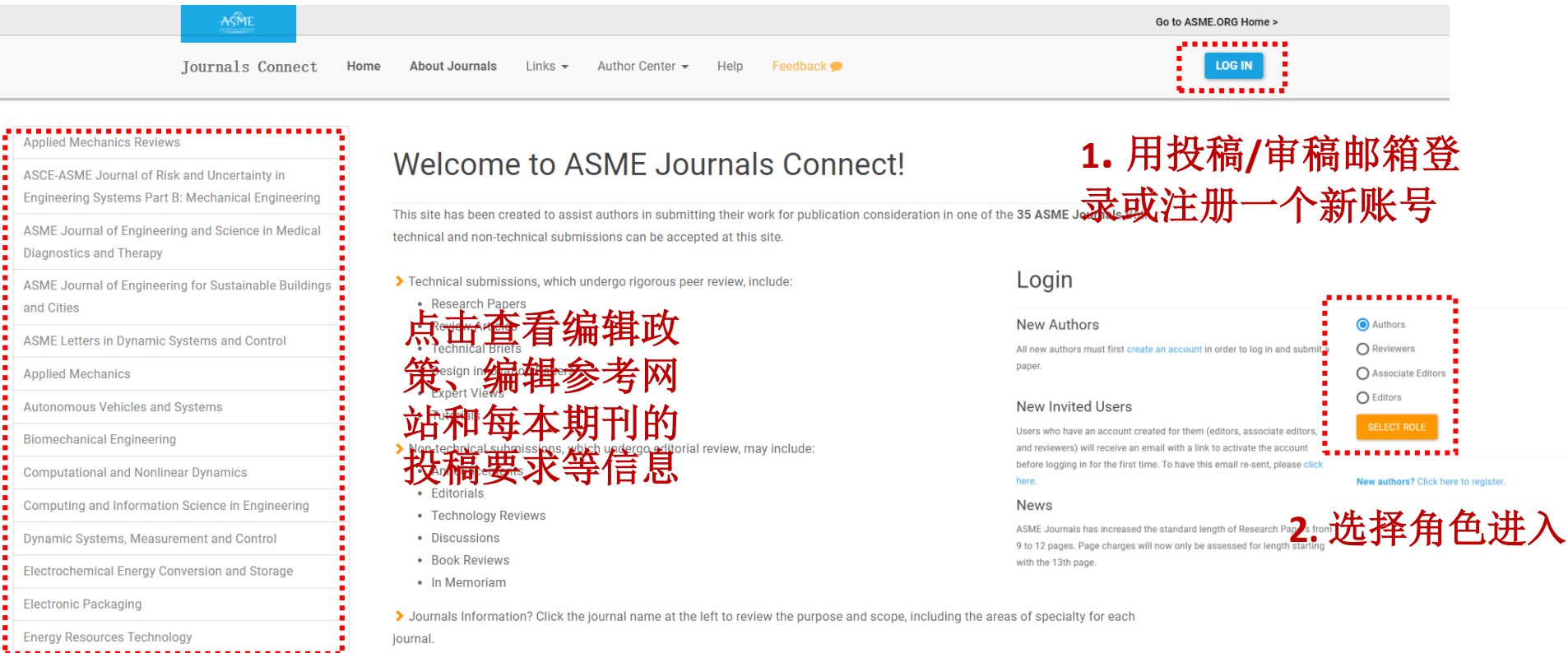


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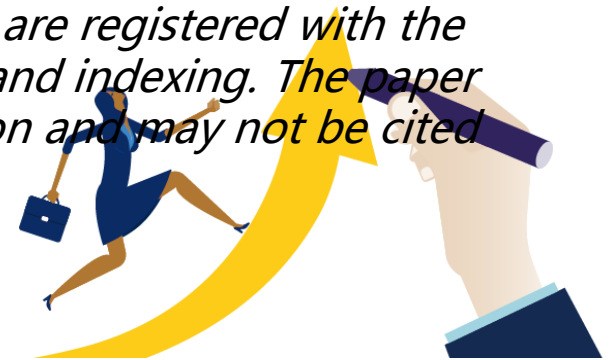
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Author Notification of Acceptance of Revised Full-Length Paper
April 30, 2020

Submission of Presentation Material

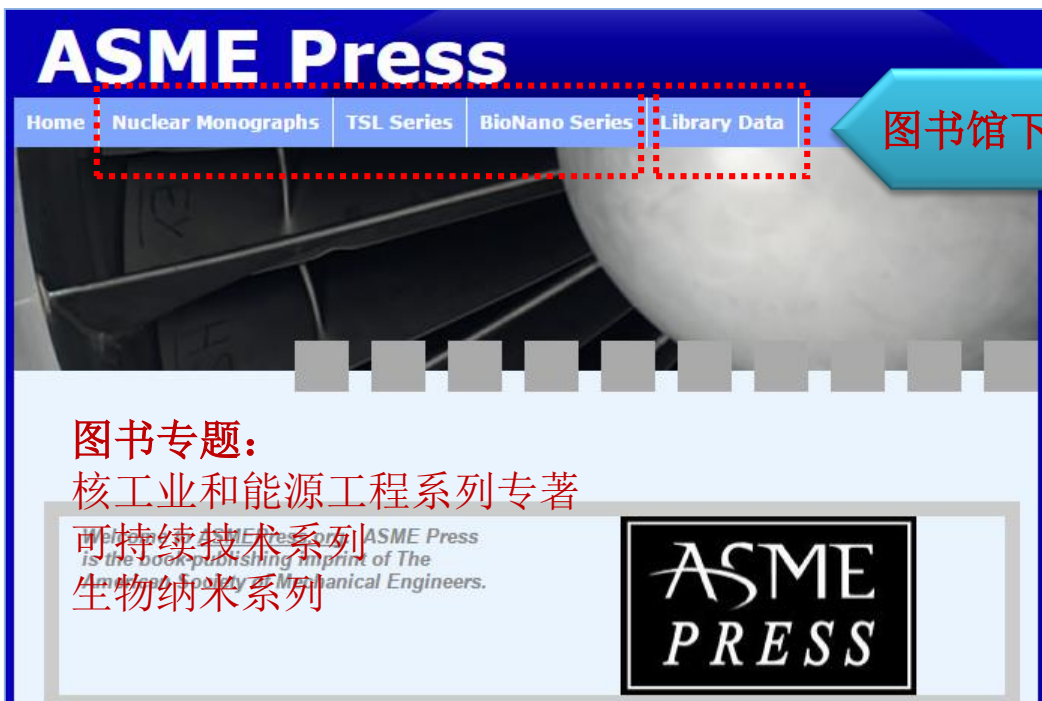
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