ASME（美国机械工程师学会）数据库培训

刘一帆　iGroup中国
2019年10月9日

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ASME 学会简介

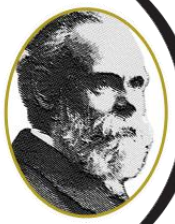
美国机械工程师学会（American Society of Mechanical Engineers）成立于1880年。现已成为一家拥有全球130,000名会员的国际性非赢利**教育**和**技术**组织，也是世界上最大的技术出版机构之一。

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：**600+**

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 SETTING THE STANDARD

ASME eBooks	电子书
ASME Journals	期　刊
ASME Proceedings	会议录
ASME Standards & Codes	标　准

NEW

ASME 出版物

期刊
会议录
电子图书
} ASME Digital Collection 平台

规范和标准 ----ASME Standards Collection 平台

杂志 ----print only

ASME DIGITAL COLLECTION
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ASME SETTING THE STANDARD STANDARDS COLLECTION

期刊

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ASME
SETTING THE STANDARD

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：**32种**

SCI 收录：**25 种**

更新频率：**每年200+期**

收录年限：**1959 年至今**

(现刊起始于2000年)

最新创刊：**《校核、验证和不确定性量化期刊》**

《电化学能转换和储存期刊》--2017年更名

《工程系统的无损评估、检测和预测期刊》

最高影响因子：**6.138 《应用力学评论》**

最高引用次数：**14,000+《应用力学期刊》**

12,900+《传热期刊》

8,000+《机械设计期刊》

期刊

- 32 种期刊， 9 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
- 刊均影响因子持续增长

2017年度 IF 刊均涨幅	↑ **20.4 %**
2018年度 IF 刊均涨幅	↑ **17.3 %**

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”

期刊覆盖领域

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

经典期刊

- **《传热期刊》Journal of Heat Transfer**

  在 SCI 收录的 100 多本机械工程类期刊中，总引用量排名前十五应用于能源、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

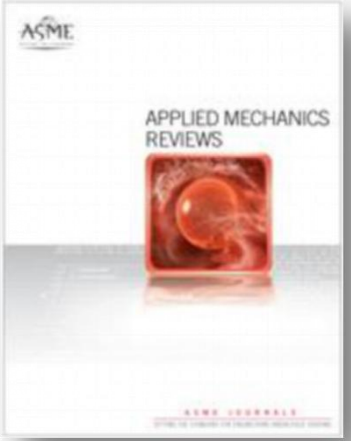
哈尔滨工业大学

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、影响因子排名第二。

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。

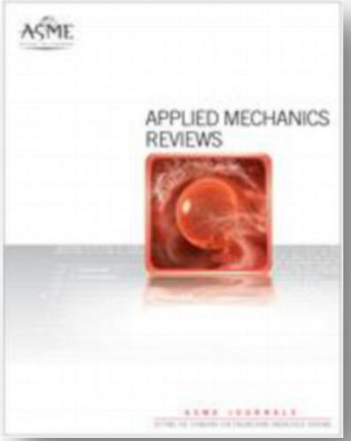
包括高级研究人员撰写的技术进展、教学进展、回顾、调查、评论及世界主要期刊文献的摘要。

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

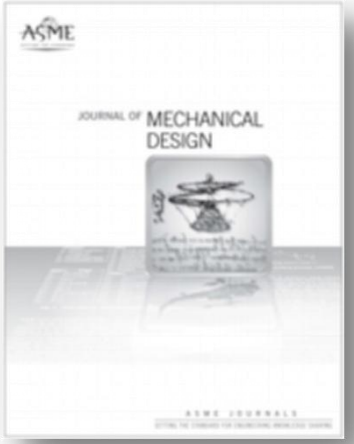


□《应用力学评论》Applied Mechanics Reviews

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、影响因子三年增幅超过80%

应用于交通工具、建筑、设备、产品加工、生产系统等领域

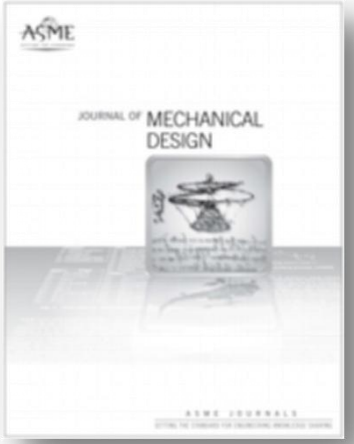
开放每年评选的获奖文章

检索关键词：

design automation、 virtual reality、 geometric design、 design optimization
design sensitivity analysis、 sustainable design 、market systems
cams、 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

卡耐基-梅隆大学

普渡大学

德克萨斯A&M大学

加州大学

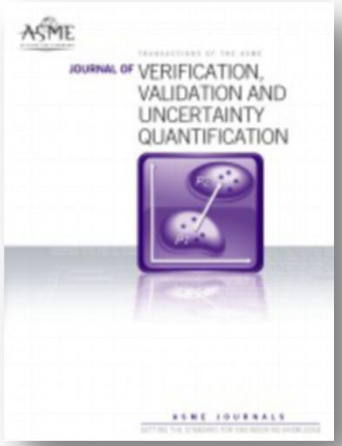
北京航空航天大学

西安交通大学

大连理工大学

重庆大学

较新期刊



□ 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：

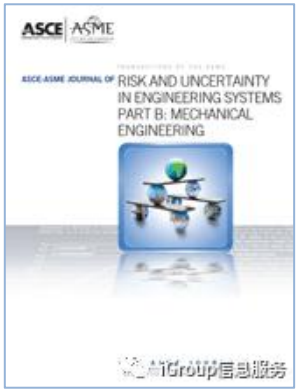
标准的校核；解决方案的验证；不确定性量化；裕度量化；模型预测；模型适当度；模型成熟度；模型逼真度；模型不确定性的敏感度分析；偶发不确定性；认知不确定性；实验的不确定性；测量的不确定性；产能预测；征状识别和排序表（PIRT）的建立；预期使用途径；模拟使用情景；监管学；比较器。

verification.asmedigitalcollection.asme.org

较新期刊 – 2016年起被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（占比近90%）。

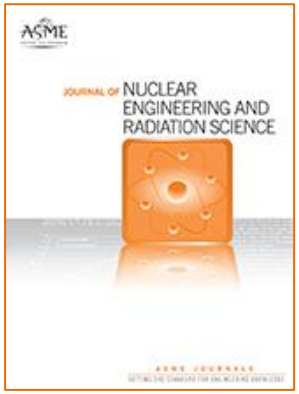
□ Journal of Micro and Nano-Manufacturing
《微纳制造期刊》
这本季刊主要发表微纳制造理论、生产流程、设备开发、精准度、材料利用率、产品生命周期分析等方面的研究论文和技术快报。自2013年创刊以来，已出版17期、共130多篇文章，探讨话题包括复合材料的微观力学、表面光洁度、铣削、切割、微晶、3D打印等。



□ 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。目前《B辑：机械工程》已出版9期、共100多篇文章。

较新期刊 – 2017年起被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 Gidropress）、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。

http://nuclearengineering.asmedigitalcollection.asme.org

最新期刊 – 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》2018年新刊"
- 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》2018年新刊"

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

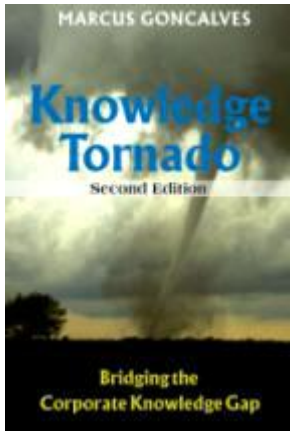
Check out more about the 2018 new journals at Wechat account **iGroup_China**!

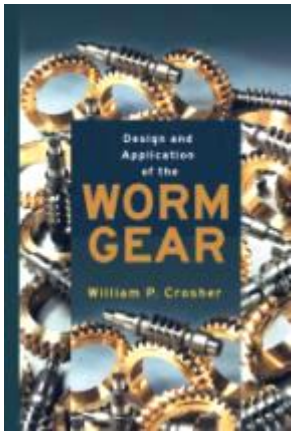
ASME PRESS

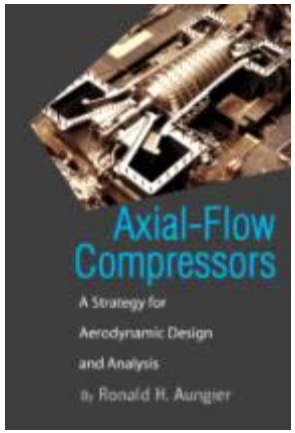
电子图书

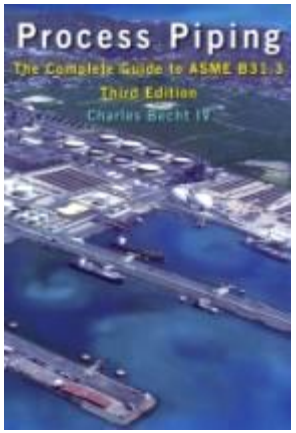
1993~now ASME eBooks

- 由ASME 技术部门主办
- 图书类型：专业参考书、专题著作、技术手册、规章解读、非 ASME 主办会议的会议录
- 图书主题：设计和制造、新兴技术（如医疗技术、人工智能）、工程技术管理、压力容器和管线、燃气轮机和动力系统、传热、电子封装、风险和补救、摩擦学
- 1993~2005 年出版的精选图书 + 2006~2019年出版的全部图书
- 每年新增 10~20 本，至2019年底增长到230多本



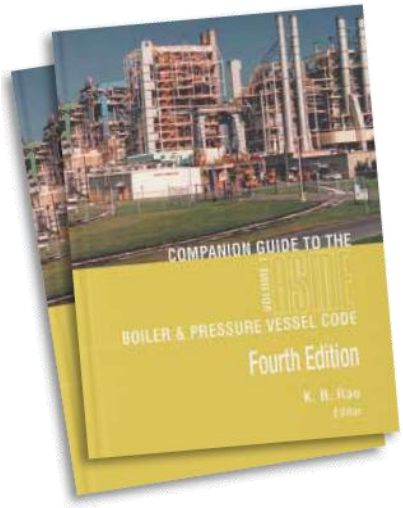






ASME PRESS

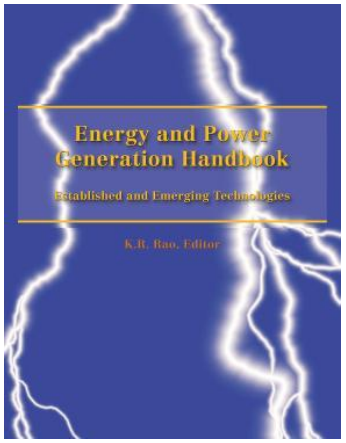
电子图书推荐—核能电力系列



Companion Guide to the ASME Boiler and Pressure Vessel Code 《ASME锅炉和压力容器规范参考指南（第四版）》

第四版指南是在2010版ASME锅炉与压力容器规范规范及其2011版附录基础上编写的，共有38个章节，由49名专家共同书写完成，很大程度地更新并改进了第三版内容，并增加了至少五个全新章节。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。包含约1250 条参考和750 多张插图。

电子图书推荐—生物纳米系列

ASME PRESS

(预计出40本，已出约20本)

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

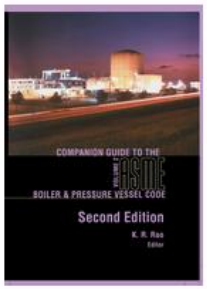
机械性心脏辅助设备依靠旋转叶轮来加强供血，支撑这一旋转结构的机械轴承就显得尤为重要。本书为机械轴承的重要设计原则和评价原则提供了完整综述，尤其注重于第二代和第三代心室辅助器（VAD）。

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》

本书中的生物医疗研究课题将引导读者探索该领域的最新技术，适合临床医生、医师、讲师和学生阅读。

电子书图书推荐—标准应用指导手册

ASME锅炉和压力容器标准参考指南（共三卷）

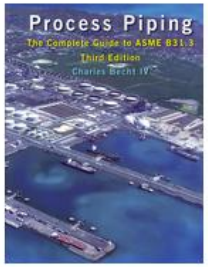


Companion Guide to the ASME Boiler & Pressure Vessel Code, Volume 2, Second Edition: Criteria and Commentary on Select Aspects of the Boiler

Purchase this Title

$225.00

Purchase



Process Piping: The Complete Guide to ASME B31.3, Third Edition

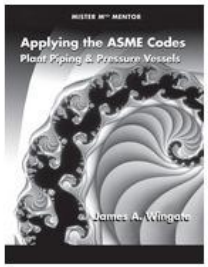
Author(s)/Editor(s): Charles Becht
Published: 2009
DOI: 10.1115/1.802861

Purchase this Title

$90.00

Purchase

ASME B31.3加工管线标准指南



Applying the ASME Codes: Plant Piping & Pressure Vessels (Mister Mech Mentor, Vol. 2)

Author(s)/Editor(s): James A. Wingate
Published: 2007
DOI: 10.1115/1.802558

Description | Details

Following the success of his first volume related to Hydraulics, Pipe Flow, Industrial HVAC & Utility Systems, Mister Mech Mentor, Volume 2 now offers an all-new, easy-to-read collection of chapters featuring ASME Piping & Pressure Vessel Code applications.

Written in a friendly style, this book provides the essential benefits of instruction by a personal mentor who explains "why" and "how" while teaching potentially dangerous lessons in physics and engineering design. Spared the embarrassment of painful mistakes, both early-career and experienced engineers will gain practical knowledge from frank, colorful cases and learn to solve a variety of mechanical problems, including:

- Pipe Stress & Strain

Purchase this Title

$77.00

Purchase

ASME标准应用：工厂管道安设和压力容器（共两卷）

会议录

- 每年举办约40场会议，出版80~100卷会议资料
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10: Micro- and Nano-Systems Engineering and Packaging
11: Systems, Design, and Complexity
12: Transportation Systems
13: Acoustics, Vibration, and Wave Propagation
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CONFERENCE
April 18 - 21, 2018

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JRC会议录分为11个栏目

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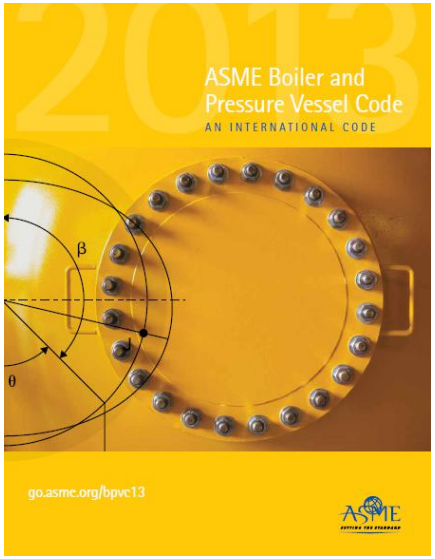

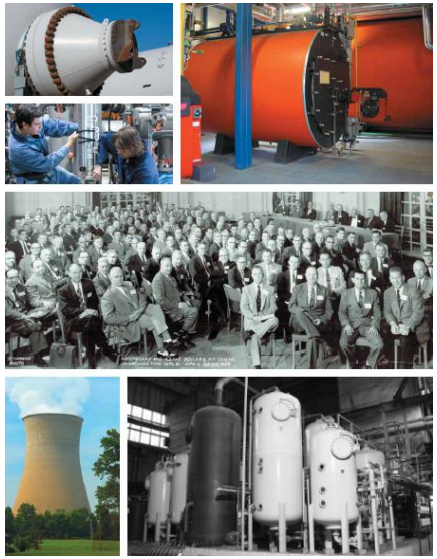

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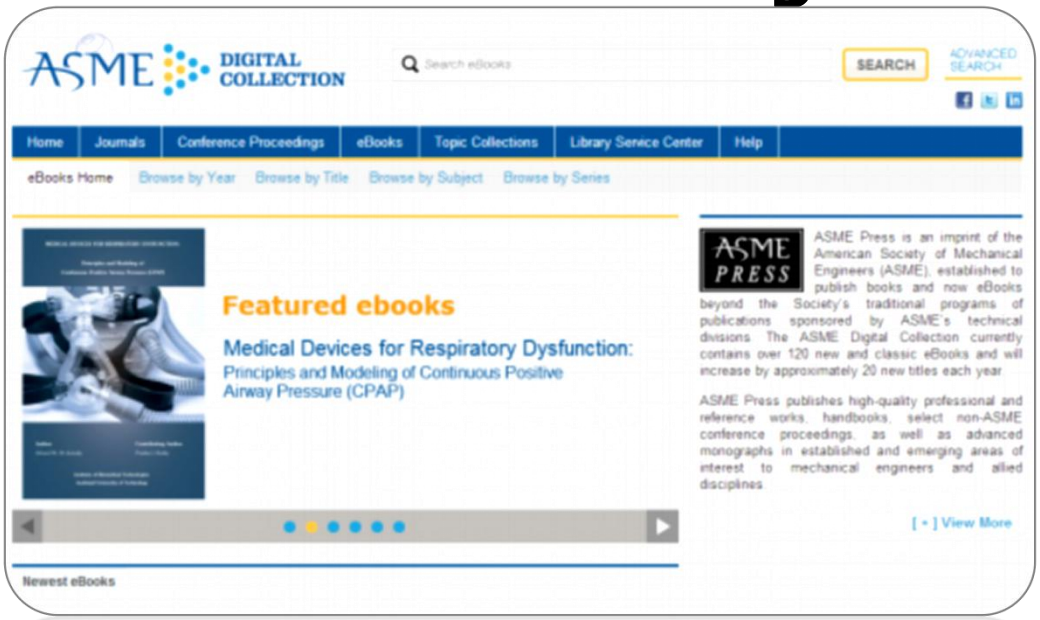

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This article presents a novel methodology, which is highly efficient and simple to implement, for simultaneous retrieval of a complete set of thermal coefficients in combined parameter and function estimation problems. Moreover, the effect of correlated unknown variables on convergence performance is examined. The present methodology is a

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Introduction

The object of an inverse heat conduct
estimation of unknown functions or pa
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 litera and comprehensive bibliography on the

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2. Hakkaki-Fard, A., and Kowsary, F., 2008, "Heat Flux E mation in a Charring Ablator," *Numer. Heat Transfer, Part A* 104 32, 53, pp. 543–560.

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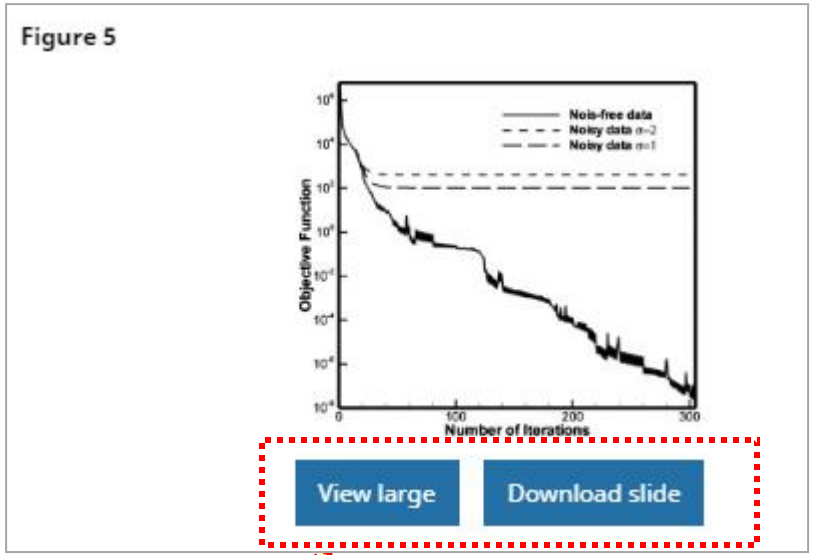

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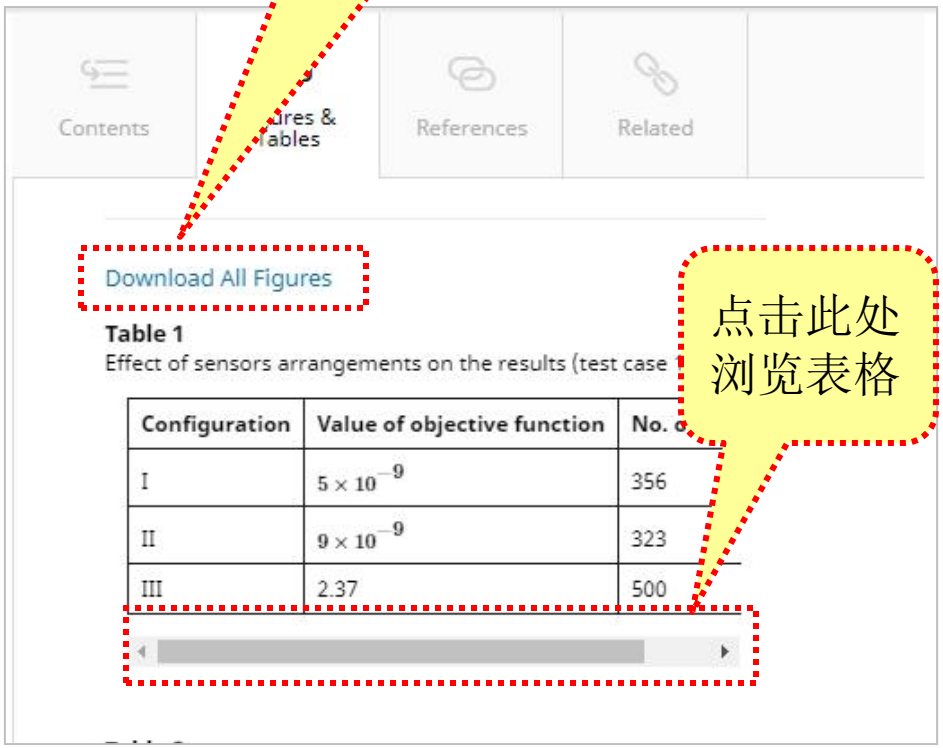

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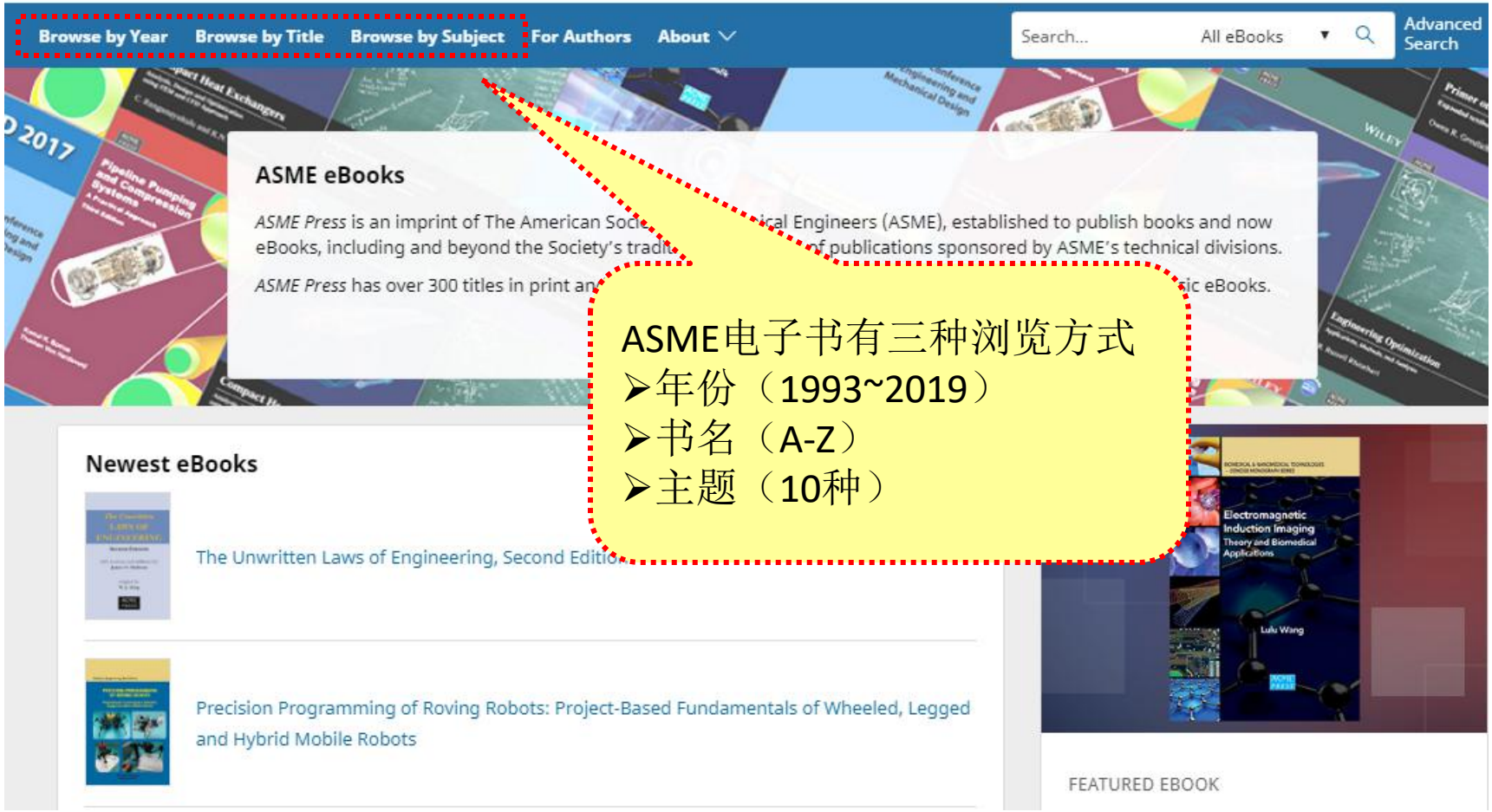

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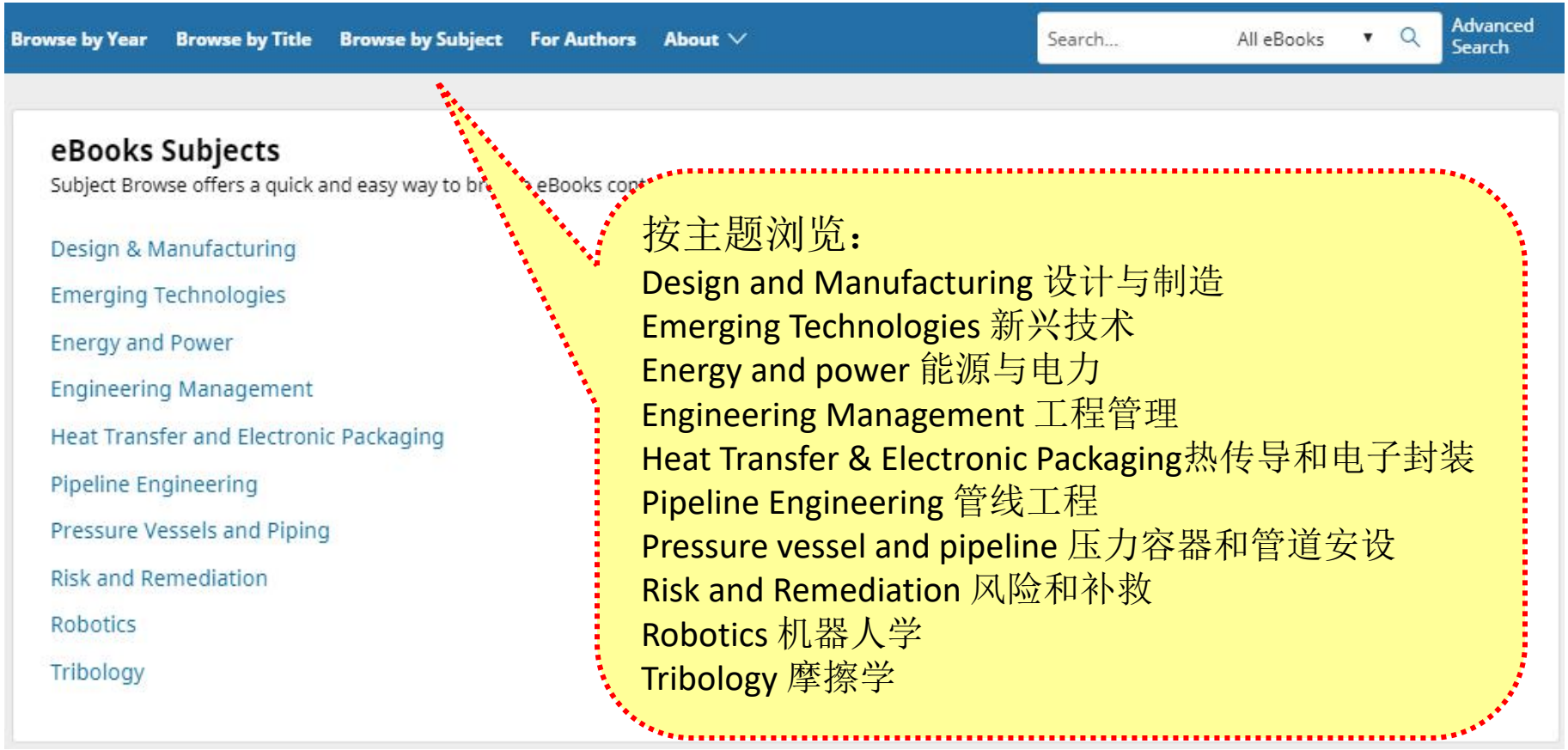

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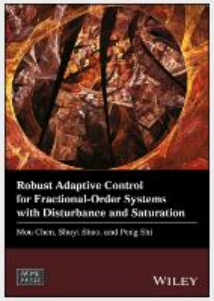

Robust Adaptive Control for Fractional-Order Systems with Disturbance and Saturation

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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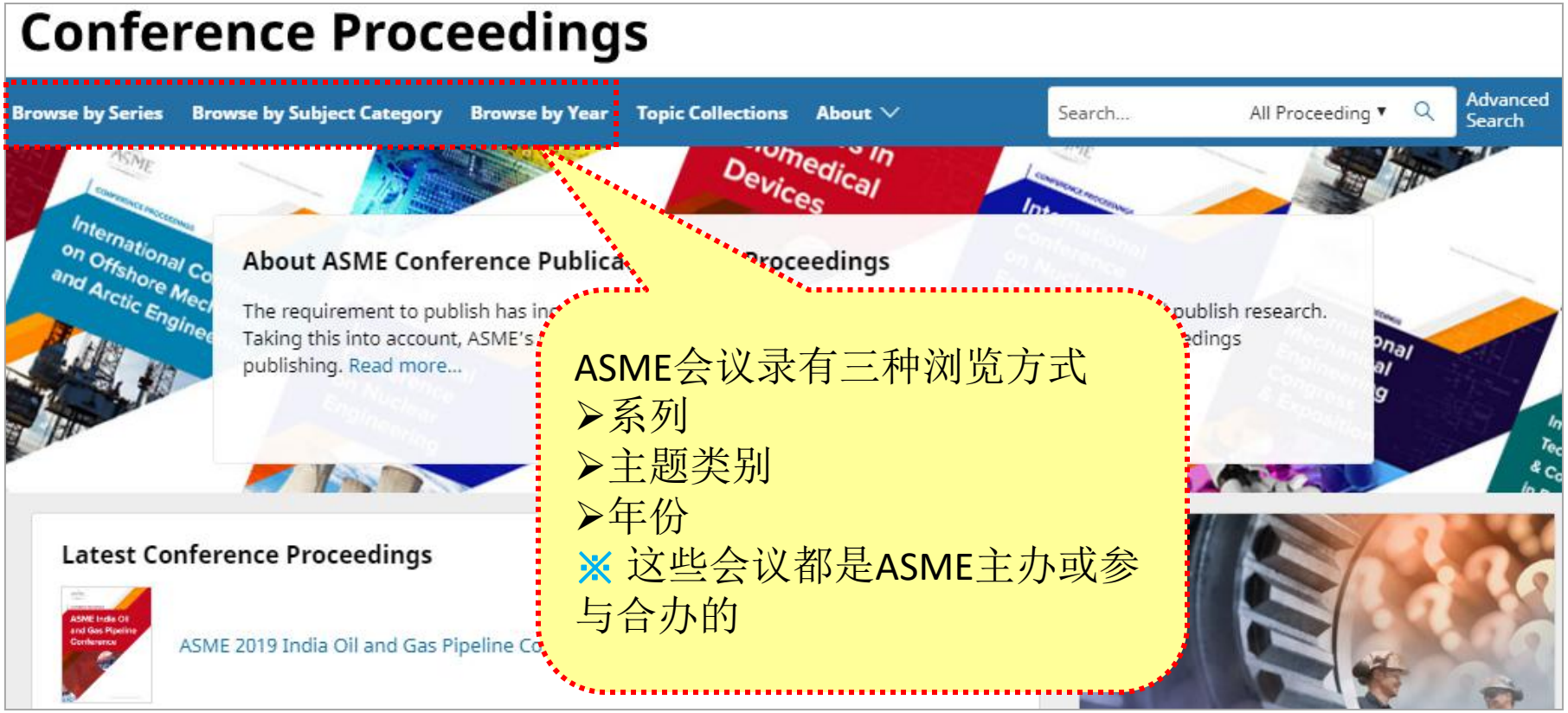

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Victorita Radulescu

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

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Paper No: IMECE2018-86781, V001T03A001; 13 pages
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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 [illegible] ent flow regime's conditions, were considered four aerodynamics airfoils, w[illegible] shapes and functioning characteristics. Two of them are special sh[illegible] supersonic profiles and the other two deduced by the[illegible]

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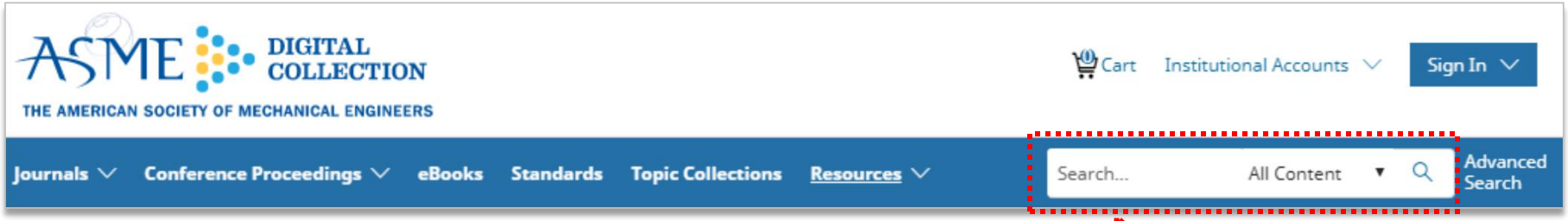

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例如，检索material simulation*

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material simulatio

Filter

Add term | Update

Journal citation

Format

- Journal Articles (5462)
- eBook (20)
- eBook Chapter (134)
- Proceedings Papers (15973)
- Image (383)

Subjects

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- Emerging Technologies (93)

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material simulation*

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PROCEEDINGS PAPERS

Correlations Between Quantum Mechanics and Continuum Mechanics for Ferroelectric **Material** Simulations

William S. Oates

Proc. ASME. SMASIS2013, Volume 2: Mechanics and Behavior of Active Materials; Structural Health Monitoring; Bioinspired Smart Materials and Systems; Energy Harvesting, V002T02A013, September 16–18, 2013

Paper No:

... Hig... ...ated by integrating electron density calculations using quantum mechani... ...ling framework. Electrostatic stresses based on the Hellmann-Feynman ...

Abstract

PROCEE

Parametric Shape and **Material** Simulations for Optimized Parts Design

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- Journal of Biomechanical Engineering (475)
- Journal of Heat Transfer (366)
- Journal of Applied Mechanics (361)

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eBook Series

- ASME Press Sele Proceedings (12
- BioNano Monographs (1)

Article Type

Conference Series

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- Turbo Expo: Power for Land, Sea, and Air (2054)
- International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (1545)
- Pressure Vessels and Piping Conference (1306)

Supplemental Material

- Has Multimedia (2)

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- Research Papers (2861)
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- Heat Transfer (464)
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Topics

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- Computer simulation (6909)
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检索案例 1--agricultural machinery

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agricultural machi

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Journal citation

Format

- Journal Articles (212)
- eBook (70)
- eBook Chapter (80)
- Proceedings Papers (537)

Subjects

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Conference Series

- ASME International Mechanical Engineering Congress and Exposition (112)
- Fluids Engineering Division Summer Meeting (107)
- International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (67)
- Turbo Expo: Power for Land, Sea, and Air (50)
- Fluid Power Systems Technology (36)
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Journal

- hanical ineering (30)
- nal of Mechanical gn (25)
- nal of Fluids ineering (23)
- nal of ufacturing nce and ineering (21)
- nal of Tribology
- nal of Dynamic ems, surement, and trol (15)
- nal of ineering for Gas bines and Power
- Journal of Energy Resources Technology (10)
- Applied Mechanics Reviews (9)
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- Journal of Biomechanical Engineering (6)
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- Journal of Nanotechnology in Engineering and Medicine (1)
- Journal of Vibration and Acoustics (1)

检索案例 2--transportation

Journal

- Journal of Heat Transfer (4666)
- Journal of Fluids Engineering (2884)
- Journal of Engineering for Gas Turbines and Power (2273)
- Journal of Turbomachinery (1329)
- Journal of Biomechanical Engineering (1289)
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- Journal of Thermal Science and Engineering Applications (453)
- Journal of Offshore Mechanics and Arctic Engineering (413)
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- Journal of Vibration and Acoustics (341)
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- ASCE-ASME J Risk and Uncert in Engrg Sys Part B Mech Engrg (78)
- Journal of Micro and Nano-Manufacturing (77)
- Journal of Verification, Validation and Uncertainty Quantification (27)

bon Nanotubes

Juan, Quan Wang, Martin Dowmar

Journal: Journal of Nanotechnology in Engineering and Medicine

Article Type: Editorial

J. Nanotechnol. Eng. Med. May 2012, 3(2): 020904.

n Through

检索案例 3--Vehicle Engineering

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vehicle engineerin

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Journal citation

Format

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vehicle engineering

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Review of Waste Energy Resource in **Vehic**

Gaosheng Fu, Lei Zuo, Jon P. Longtin

Proc. ASME. HT2012, Volume 1: Heat Transfer in Energy Sy
Heat Transfer; Gas Turbine Heat Transfer; Transport Phe
Heat and Mass Transfer in Biotechnology; Environmenta
Education and Future Directions in Heat Transfer, 381-38

Paper No: HT2012-58455

DOI: https://doi.org/10.1115/HT2012-58455

... Energy recovery from **vehicle engine** exhaust has attr
associated with the **engine** exhaust, including temperatu
optimum location for energy extraction all factor strongl

Abstract | View Paper | PDF

Topics: Energy resources, **Engines**, Exhaust systems, Veh
Corporate average fuel economy, Design

Subjects

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earch; Aerospace
Manufacturing;
Transfer;

Key parameters
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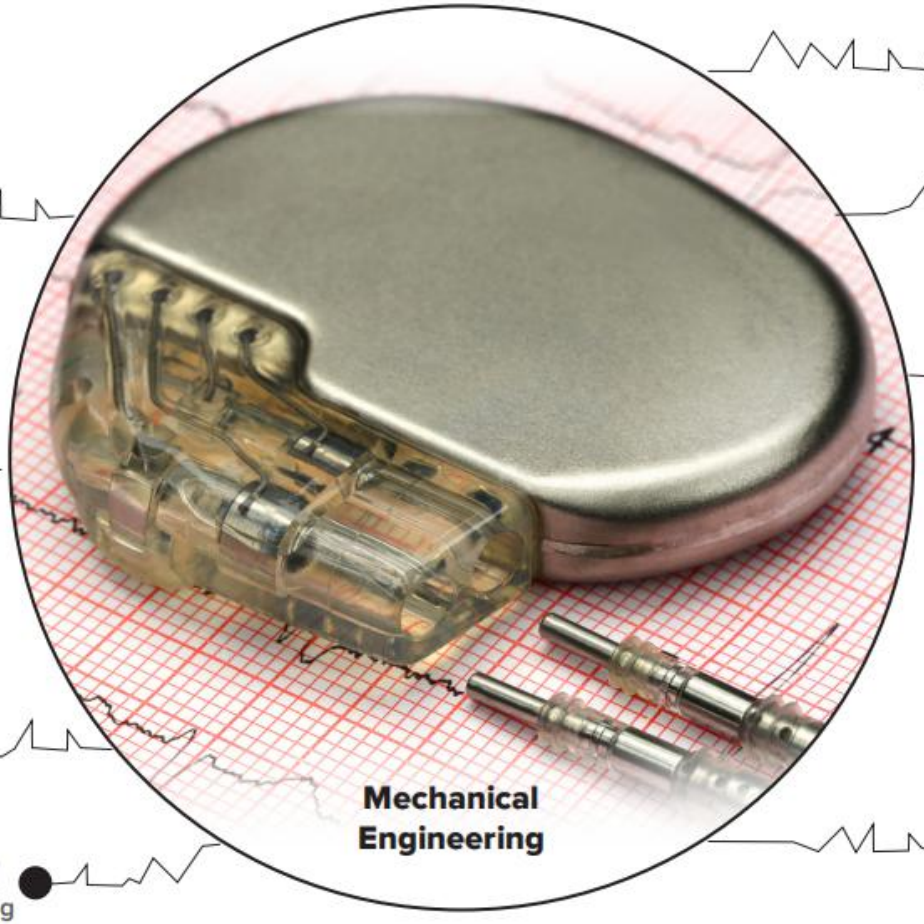

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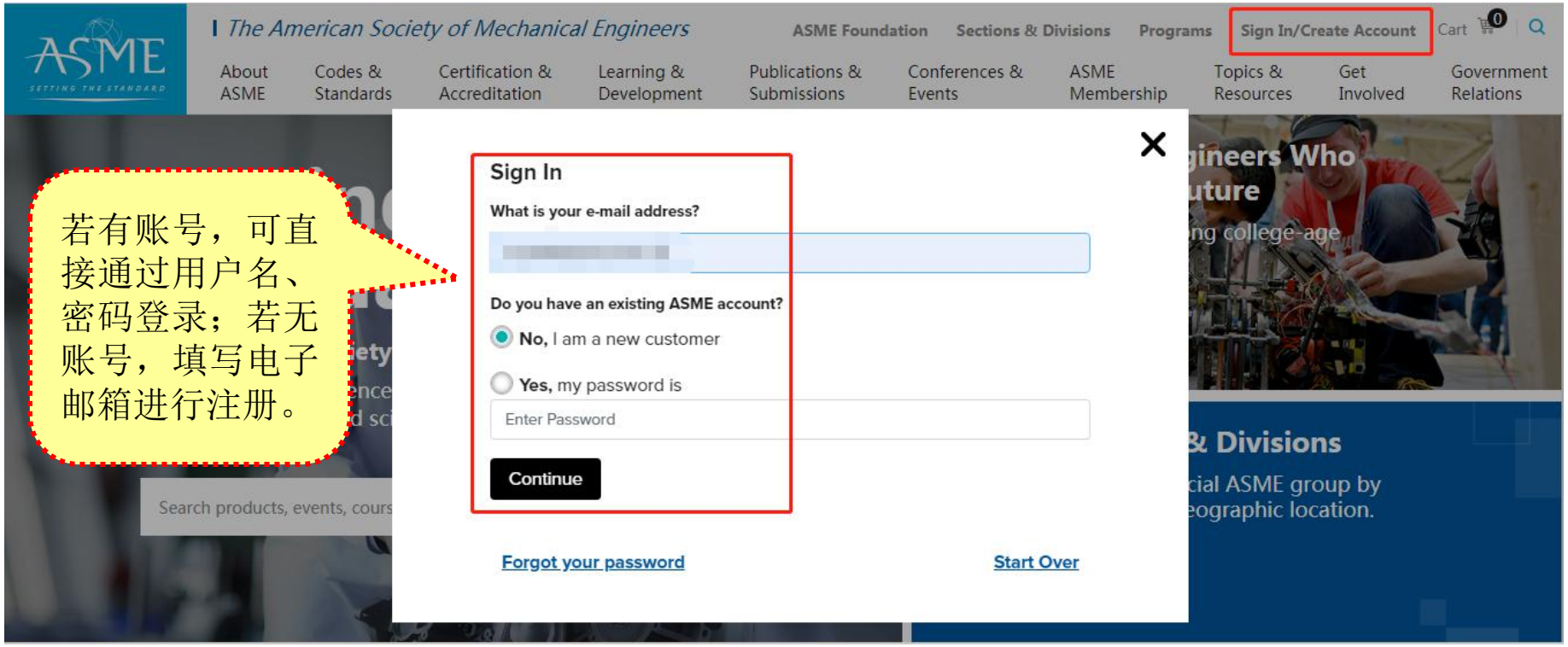

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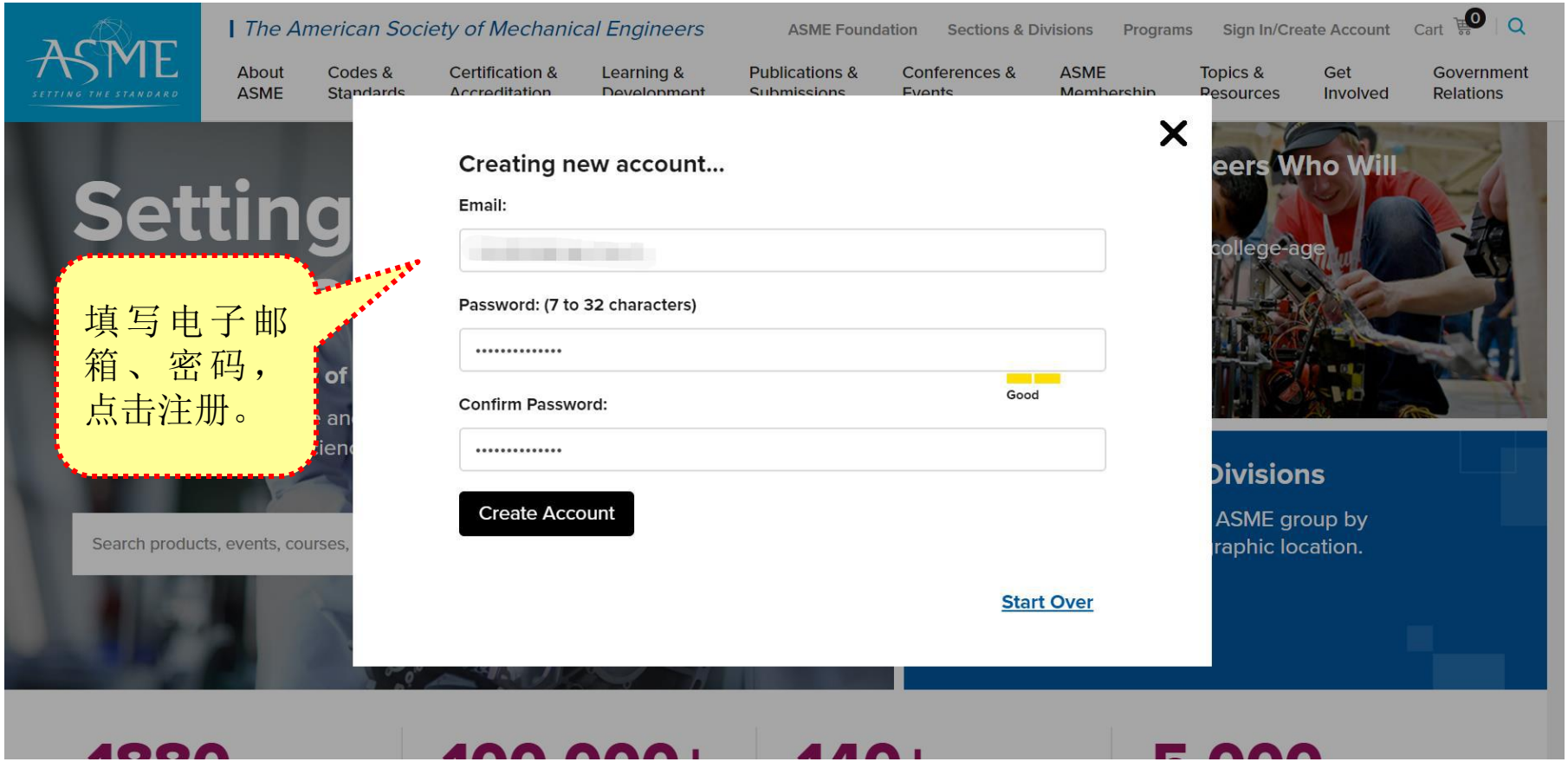

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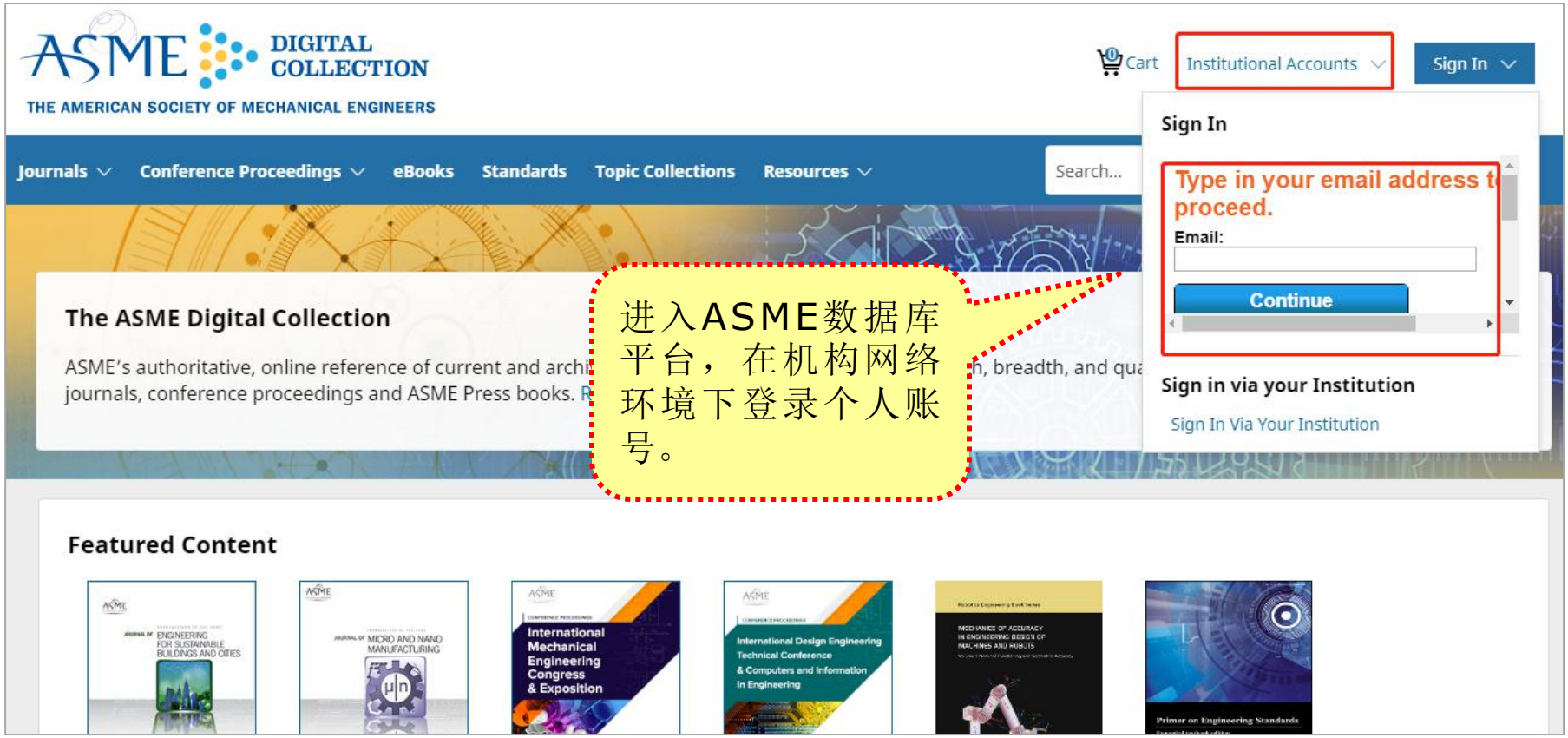

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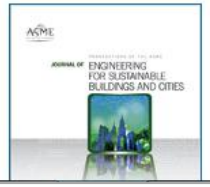

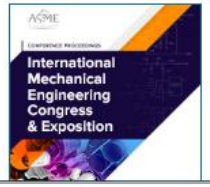

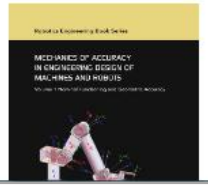

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Erratum: "Nonlinear Vibrations of Buried Rectangular Plate" [ASME J. Vib. Acoust., 2018, 140(5), p. 051010; DOI: 10.1115/1.4039538]

Guangyang Hong, Jian Li, Zhicong Luo, and Hongying Li

In the original publication of the article, the Grant No. has been incorrectly published. The correct sequence should be Grant Nos. 11672072 and 11502050.

14、In Memoriam

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Michael M. Khonsari,
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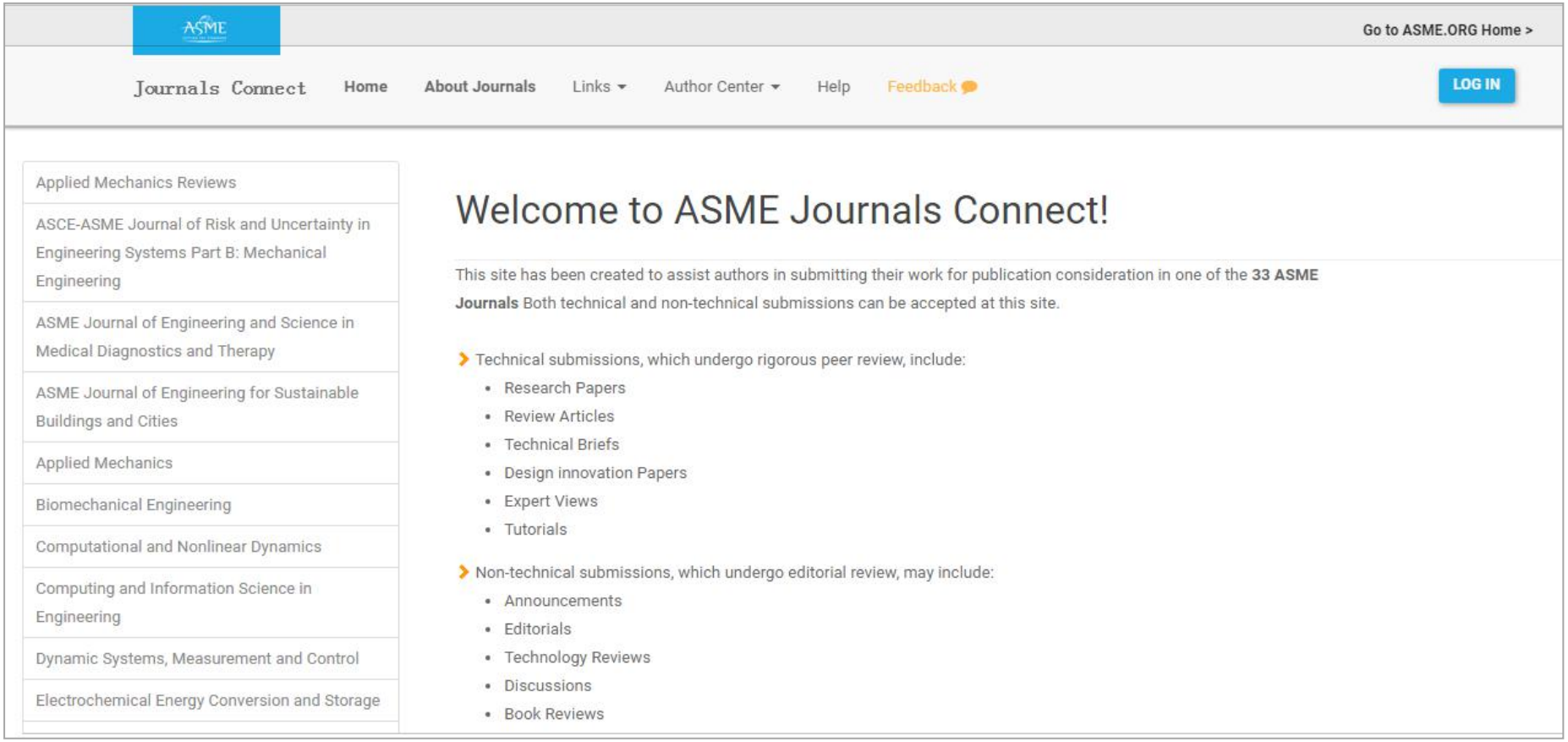

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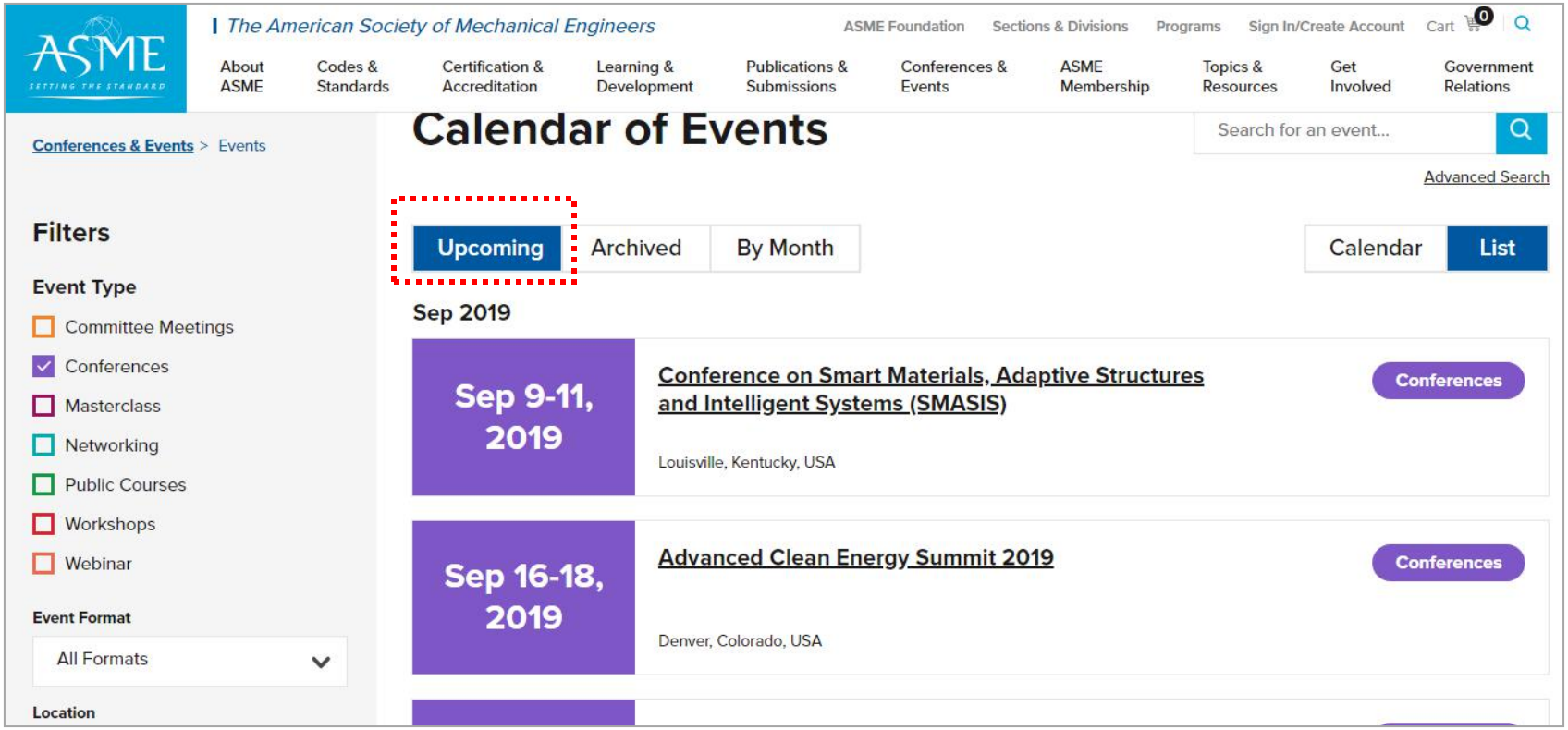

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- SYMP 3 Modeling, Simulation and Control of Adaptive Systems
- SYMP 4 Integrated System Design and Implementation
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Author Paper Review Complete
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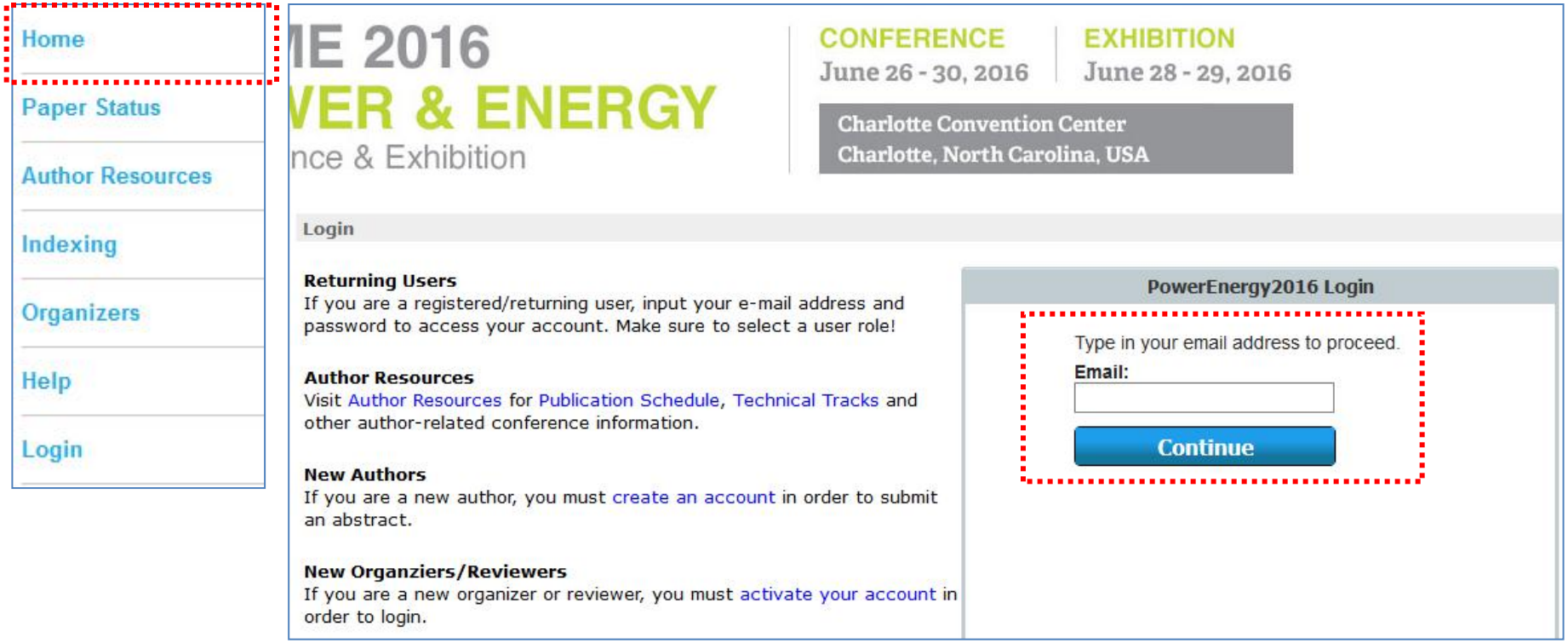

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- Author Resources
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- Organizers
- Help
- Login

Publication Schedule
A listing of critical publication deadlines to follow in order for technical content to be considered for publication i

Technical Tracks
A listing of technical tracks and descriptions

Paper Types
A listing of paper types (with descriptions) that identify the technical content for the conference

Draft Paper Preparation
Information on preparing and submitting your draft submittal

Final Paper Preparation
Instructions on preparing and submitting your final materials for publication

Conference-Specific Information and Templates
Information specific to preparing your submittals for PowerEnergy2016 and examples and templates for creating

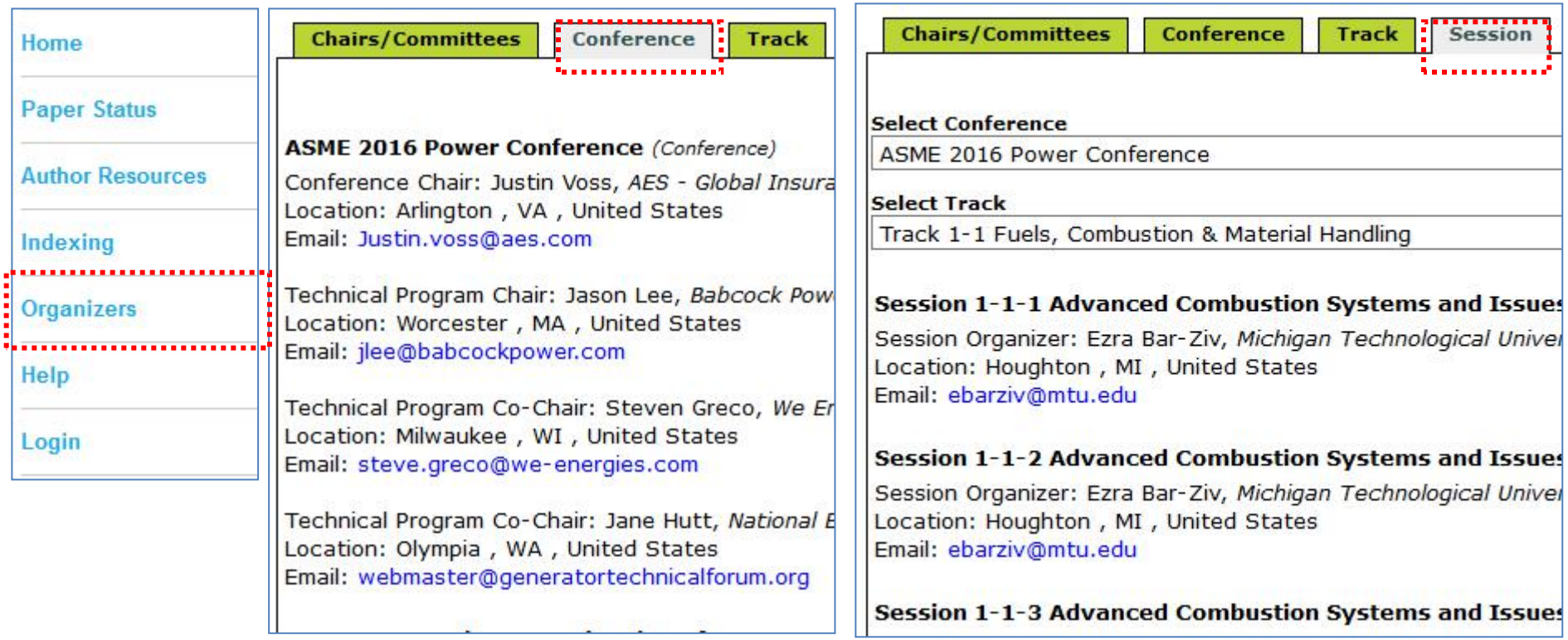
Copyright Transfer Form
Required for publication in the conference proceedings

Technical Presentation Tips
View pointers on delivering a successful presentation

投稿入口

B. 会议录

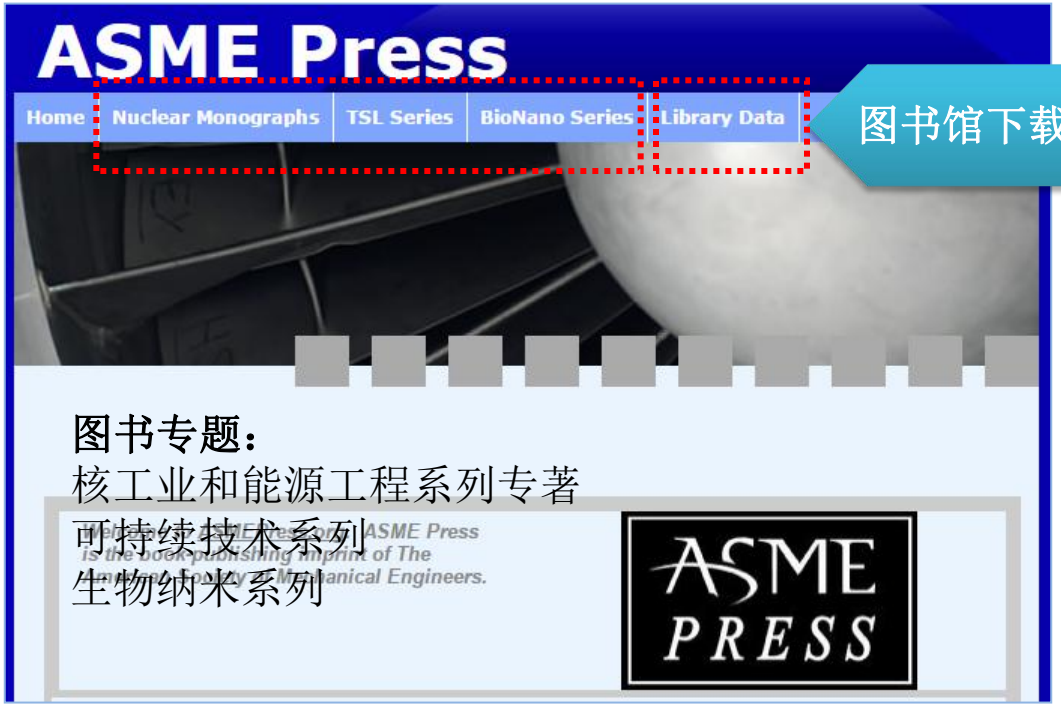
进入Organizers，了解会议组织方的联系方式以及各分会的主题和主持人：



投稿入口

C. 电子书

在ASME Press网站找到图书征稿信息。
※ 总入口：http://www.asmepress.org/home.html



图书馆下载电子书MARC记录

期刊 or 会议录？

JOURNAL ATTRIBUTES

- Report on completed research projects with conclusive findings
- Tend to cover concepts or theory
- De-emphasize mis-steps or negative results
- Articles chosen by an editorial team, which may eliminate “noise” but also introduces a subjectivity regarding worthiness
- The preferred publication vehicle for academic and government researchers because of full peer review and impact factor
- Selective and rigorous

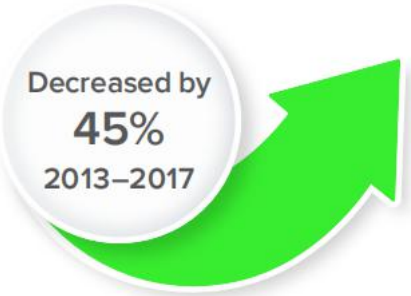
PROCEEDINGS ATTRIBUTES

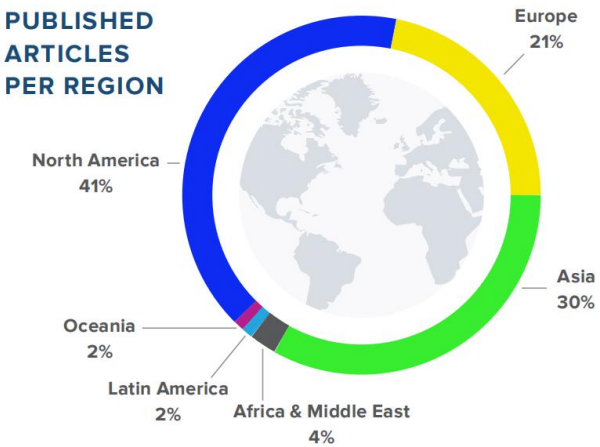
- Collectively, a record of a conference that reflects state of the art at that time and over time for a continuing series
- Individually, a snapshot of a researcher’s project
- The preferred publication for researchers in industry
- A place to publish preliminary findings
- Inconclusive or negative results may be shown, to help others learn
- A means for learning how to write research papers for students
- Reviewed by the conference chairs and program committee; the final paper may reflect this “peer review”
- Inclusive and diverse

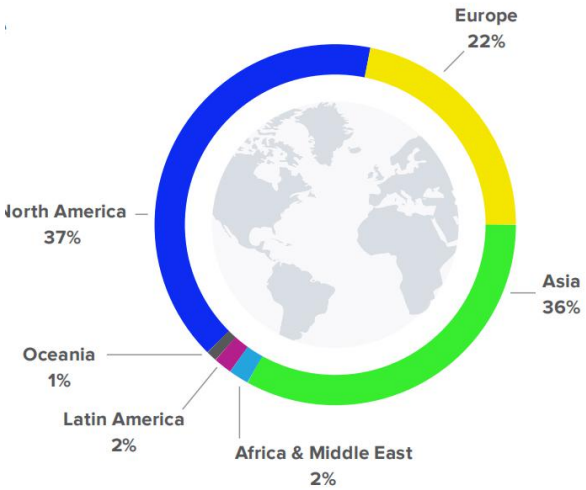
加速出版时间

ASME一直在努力改进整个ASME期刊项目的出版时间，同时保持同行评审的完整性、彻彻性和质量。

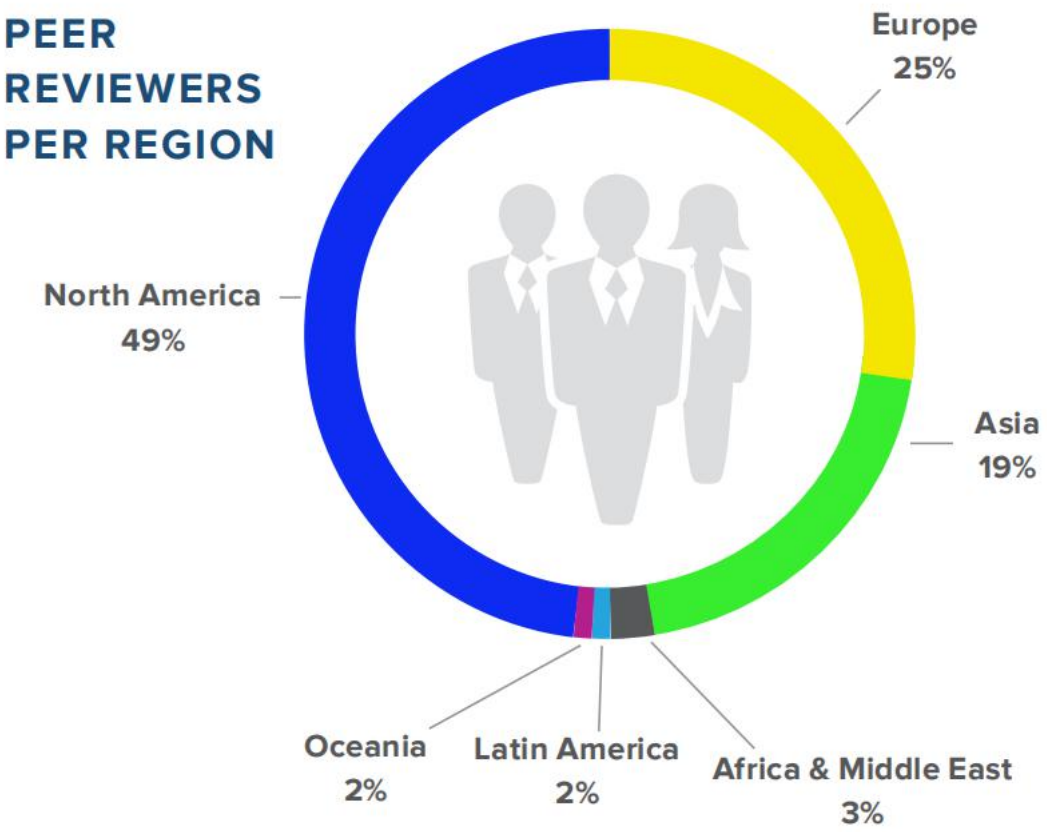
举例
Journal of Applied Mechanics
2013-2017年的同行评审时间降低了45%
意味着2017年的作者收到的评审结果平均时间是41.5天。







2017年，有8000人担任ASME期刊部的同行评审人。



南京农业大学发文情况

RESEARCH-ARTICLE

Bifurcation in the Swift–Hohenberg Equation

Qingkun Xiao, Hongjun Gao

Check for updates

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