

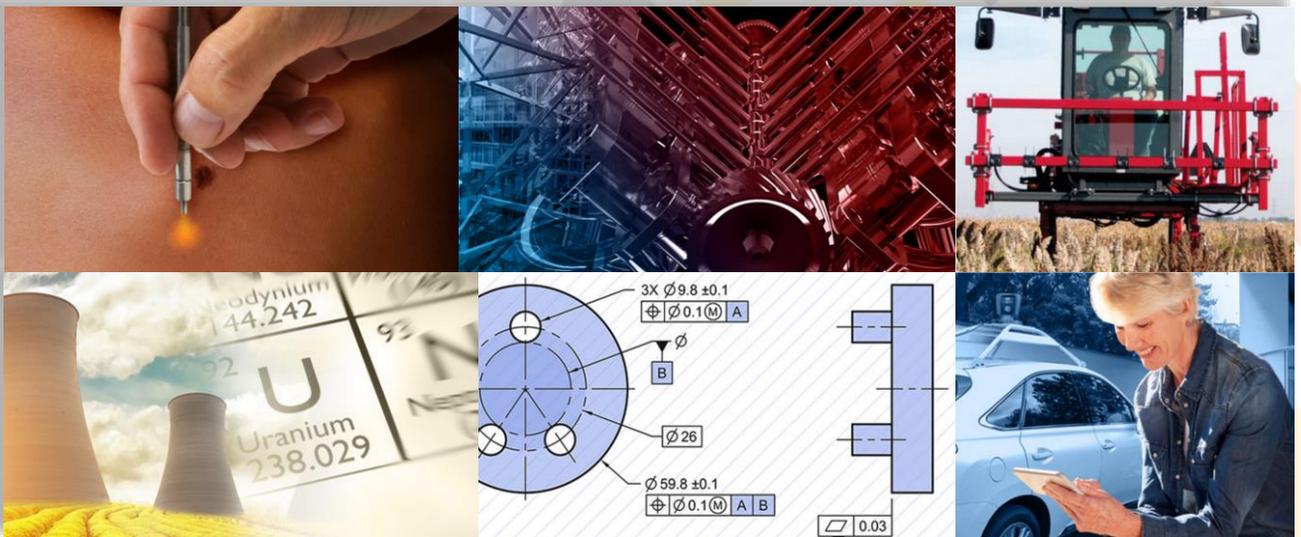
Guía Rápida de Uso 2016

Acerca de ASME

La American Society of Mechanical Engineers fue fundada en 1880 y actualmente cuenta con más de 127 mil miembros de 151 países. Su objetivo es promover el arte y la ciencia de la ingeniería multidisciplinaria, así como de ciencias asociadas en todo el mundo.

El alcance temático de los contenidos de ASME abarca, entre otras áreas:

- ✦ Diseño asistido por computadora
- ✦ Calderas a presión
- ✦ Carreras
- ✦ Construcción
- ✦ Empaques eléctricos
- ✦ Energía
- ✦ Energía sustentable
- ✦ Evaluación no-destructiva
- ✦ Fuentes de alimentación
- ✦ Gestión de tecnología
- ✦ Industria aeroespacial
- ✦ Industria de defensa
- ✦ Ingeniería ártica y marina
- ✦ Ingeniería biomecánica
- ✦ Ingeniería de fluidos
- ✦ Ingeniería de sistemas
- ✦ Ingeniería nuclear
- ✦ Manufactura
- ✦ Mecánica aplicada
- ✦ Motores de combustión interna
- ✦ Nanotecnología
- ✦ Robótica y mecatrónica
- ✦ Sistemas automotrices
- ✦ Sistemas dinámicos
- ✦ Transferencia de calor
- ✦ Transportación
- ✦ Tribología



Página Principal de ASME Digital Collection

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

The screenshot shows the ASME Digital Collection homepage. At the top, there is a navigation bar with 'ASME.ORG', 'SIGN IN', and 'View Cart'. Below this is the ASME logo and 'DIGITAL COLLECTION' text, followed by a search bar and 'ADVANCED SEARCH' link. A secondary navigation bar includes 'Home', 'Journals', 'Conference Proceedings', 'eBooks', 'Topic Collections', 'Library Service Center', 'Faculty Positions', and 'Help'. The main content area features a carousel of book covers, a 'Newest Content' section with 'Applied Mechanics Reviews' articles, a '2016 Joint Rail Conference' announcement, and an 'AMR Podcast' section with an audio player for 'Applied Mechanics Reviews Audio Interview: Prof. Rodney Clifton'. A 'Topic Collections' sidebar lists categories like Design Engineering, Energy, Fluids Engineering, and Heat Transfer.

1. Ir a página de la Sociedad
2. Crear o entrar a cuenta personal
3. Búsqueda sencilla y avanzada
4. Redes sociales
5. Navegar por el contenido: revistas de investigación; memorias de conferencias; colecciones temáticas; información sobre la plataforma; empleos en academia; ayuda
6. Portadas más recientes
7. Información sobre ASME Digital Collection
8. Contenido más reciente
9. Podcast más reciente
10. Colecciones temáticas

Navegar por Revistas

1. Portadas y links a cada revista
2. Avisos
3. Listado con breve descripción de cada revista y links a: página principal de la revista, tabla de contenidos del último número y listado de números

The screenshot displays the ASME Digital Collection website. At the top left is the ASME logo with the text "DIGITAL COLLECTION" and "THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS". A search bar with the placeholder "Search Journals" and a "SEARCH" button is located to the right. Social media icons for LinkedIn, Facebook, Twitter, and YouTube are in the top right corner. A navigation menu below the header includes "Home", "Journals", "Conference Proceedings", "eBooks", "Topic Collections", "Library Service Center", "Faculty Positions", and "Help".

The main content area features a carousel of journal covers. The fourth cover, "JOURNAL OF ELECTRONIC PACKAGING", is highlighted with a circled "1". To the right of the carousel is a "NEWS" section with a circled "2" and the text: "ASME Journal Program NEWS The ASME Journal of Thermal Science and Engineering Application has been accepted into the Thomson Reuters SCI and will be receiving an Impact Factor in 2016!".

Below the carousel is a "Browse All Journals" section with a circled "3". It lists two journals:

- Applied Mechanics Reviews**: This international review journal serves as a premier venue for dissemination of material across all sub-disciplines of applied mechanics and engineering science, including fluids and solids, heat transfer, dynamics and vibration. Links: [Journal Home](#) | [Newest Issue](#) | [All Issues](#)
- ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering**: This journal serves as a medium for dissemination of research findings, best practices and concerns, and for discussion and debate on risk and uncertainty related issues.

Página principal de una Revista

1. Menú: último número; todos los números; artículos aceptados; artículos publicados primero en línea; podcast
2. Segundo menú de navegación: activar alertas a correo electrónico; tabla de contenidos del último número; artículos aceptados; navegar por todos los números
3. Podcast más reciente
4. Artículos más recientes y más leídos



Applied Mechanics Reviews

Newest Issue: (July 2016, Volume 68, Issue 4)

 [Email Alerts](#)

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[View Accepted Manuscripts](#)

[Browse All Issues](#)

AMR Podcast

[All episodes >](#)

June 01, 2016



Applied Mechanics Reviews Audio Interview: Prof. Rodney Clifton

32 minutes, 40 seconds



Prof. Rodney Clifton is among the pioneers in the development of experimental techniques for characterizing high-strain-rate material response, recognized with membership in the National Academy of Engineering in 1989 and the ASME Timoshenko Medal in 2000. This AMR audio interview tells his story from a modest background in a one-room country school, through his labor on the early construction of Interstate 80 in Nebraska, to research on computational techniques for wave propagation in elastic-plastic materials, innovative approaches to characterizing the viscoelastic response of vocal folds, and a life-long commitment to teaching and learning.

Newest Articles [Popular Content](#)

Review Article | July 2016

[Manufacture and Mechanics of Topologically Interlocked Material Assemblies](#)

Thomas Siegmund, Francois Barthelat, Raymond Cipra, Ed Habtour and Jaret Riddick

Appl. Mech. Rev. 68, 040803 (2016) (15 pages); Paper No: AMR-16-1018; doi:10.1115/1.4033967

Review Article | July 2016

[Transport Phenomena and Properties in Treelike Networks](#)

Peng Xu, Agus Pulung Sasmito, Boming Yu and Arun Sadashiv Mujumdar

Appl. Mech. Rev. 68, 040802 (2016) (17 pages); Paper No: AMR-16-1007; doi:10.1115/1.4033966

Review Article | July 2016

[Acoustically Coupled Combustion of Liquid Fuel Droplets](#)

Ann R. Karagozian

Appl. Mech. Rev. 68, 040801 (2016) (11 pages); Paper No: AMR-15-1098; doi:10.1115/1.4033792

Navegar por memorias de conferencias

1. Menú de navegación por: series; año
2. Banner dinámico de últimas memorias
3. Información sobre Memorias de Conferencias de ASME
4. Memorias de conferencias más recientes

The screenshot displays the ASME Digital Collection website interface. At the top left is the ASME logo and 'DIGITAL COLLECTION' text. A search bar is located at the top center with the placeholder text 'Search Conference Proceedings'. To the right of the search bar is a 'SEARCH' button and an 'ADVANCED SEARCH' link. Below the search bar is a navigation menu with tabs for 'Home', 'Journals', 'Conference Proceedings', 'eBooks', 'Topic Collections', 'Library Service Center', 'Faculty Positions', and 'Help'. The 'Conference Proceedings' tab is active, and a sub-menu is visible with options for 'Conference Proceedings Home', 'Browse by Conference Series', and 'Browse by Year'. A large banner for 'Turbo Expo: Power for Land, Sea, and Air' is featured, with a '2' callout pointing to the navigation arrows below it. To the right of the banner is a section titled 'ASME Conference Publications' with a '3' callout, containing text about ASME's annual conference proceedings. Below the banner is a 'Newest Proceedings Volumes' section with a '4' callout pointing to the volume list. The list includes two volumes from the ASME 2016 5th International Conference on Micro/Nanoscale Heat and Mass Transfer, held in Singapore from January 4-6, 2016. The first volume is 'Volume 1: Micro/Nanofluidics and Lab-on-a-Chip; Nanofluids; Micro/Nanoscale Interfacial Transport Phenomena; Micro/Nanoscale Boiling and Condensation Heat Transfer; Micro/Nanoscale Thermal Radiation; Micro/Nanoscale Energy Devices and Systems' with ISBN 978-0-7918-4965-1. The second volume is 'Volume 2: Micro/Nano-Thermal Manufacturing and Materials Processing; Boiling, Quenching and Condensation Heat Transfer on Engineered Surfaces; Computational Methods in Micro/Nanoscale Transport; Heat and Mass Transfer in Small Scale; Micro/Miniature Multi-Phase Devices; Biomedical Applications of Micro/Nanoscale Transport; Measurement Techniques and Thermophysical Properties in Micro/Nanoscale; Posters' with ISBN 978-0-7918-4966-8.

ASME DIGITAL COLLECTION
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Search Conference Proceedings

SEARCH

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Home Journals Conference Proceedings eBooks Topic Collections Library Service Center Faculty Positions Help

Conference Proceedings Home Browse by Conference Series Browse by Year

1

2

Conference Proceedings
Turbo Expo: Power for Land, Sea, and Air

ASME
Conference Proceedings
Turbo Expo: Power for Land, Sea and Air

3

ASME Conference Publications

ASME sponsors more than 30 conferences per year and publishes approximately 100 proceedings volumes annually. Conference topics encompass the entire spectrum of subject areas of interest to mechanical engineers and associated disciplines. ASME Conference Proceedings are available in print and also in digital format through the ASME Digital Collection. Individual conference papers from 2002 to the present are currently available through the ASME Digital Collection.

4

Newest Proceedings Volumes

ASME 2016 5th International Conference on Micro/Nanoscale Heat and Mass Transfer
Volume 1: Micro/Nanofluidics and Lab-on-a-Chip; Nanofluids; Micro/Nanoscale Interfacial Transport Phenomena; Micro/Nanoscale Boiling and Condensation Heat Transfer; Micro/Nanoscale Thermal Radiation; Micro/Nanoscale Energy Devices and Systems
January 4–6, 2016, Biopolis, Singapore
ISBN: 978-0-7918-4965-1

ASME 2016 5th International Conference on Micro/Nanoscale Heat and Mass Transfer
Volume 2: Micro/Nano-Thermal Manufacturing and Materials Processing; Boiling, Quenching and Condensation Heat Transfer on Engineered Surfaces; Computational Methods in Micro/Nanoscale Transport; Heat and Mass Transfer in Small Scale; Micro/Miniature Multi-Phase Devices; Biomedical Applications of Micro/Nanoscale Transport; Measurement Techniques and Thermophysical Properties in Micro/Nanoscale; Posters
January 4–6, 2016, Biopolis, Singapore
ISBN: 978-0-7918-4966-8

Navegar por libros electrónicos

1. Menú de navegación por: año; título; colección temática; series
2. Libros destacados
3. Información de ASME Press (libros)
4. Libros electrónicos más recientes



Search eBooks

SEARCH

ADVANCED SEARCH

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

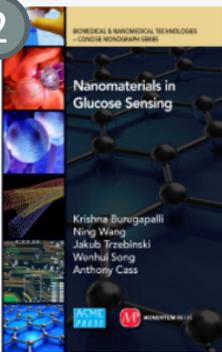


Home Journals Conference Proceedings eBooks Topic Collections Library Service Center Faculty Positions Help

eBooks Home Browse by Year Browse by Title Browse by Subject Browse by Series

1

2



Featured eBooks

Nanomaterials in Glucose Sensing: Biomedical & Nanomedical Technologies - Concise Monographs



3

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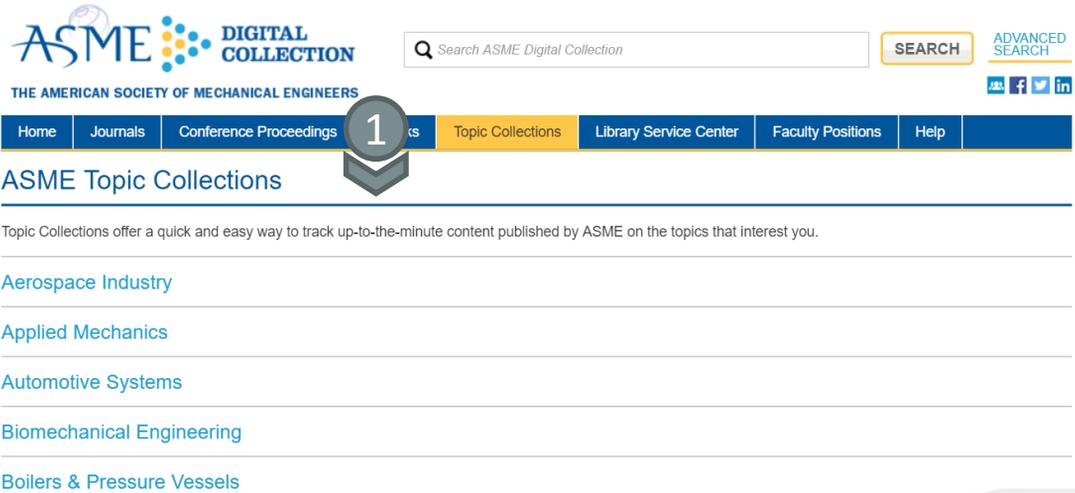
2016
Fundamentals of Mechanical Vibrations
L.-W. Cai
ISBN: 97811119050124



2016
Introduction to Dynamics and Control in Mechanical Engineering Systems
C. W. S. To
ISBN: 97811118934920

Colecciones Temáticas

1. Seleccionar la deseada en el listado



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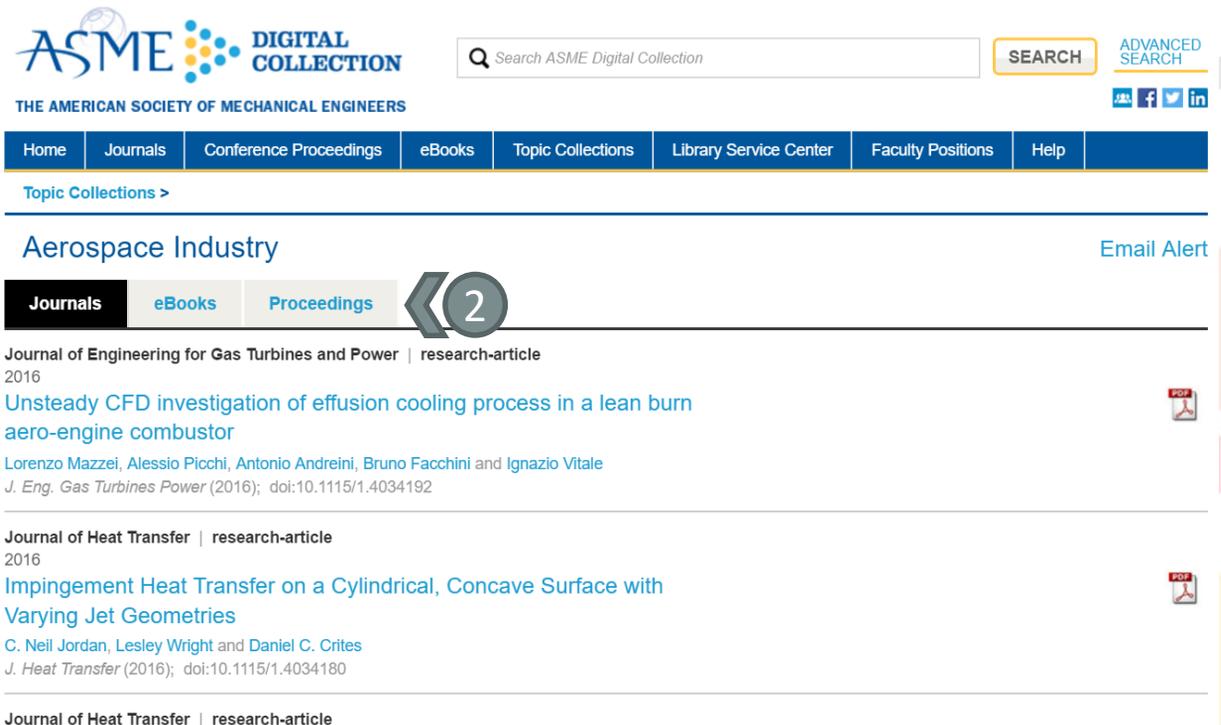
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- [Applied Mechanics](#)
- [Automotive Systems](#)
- [Biomechanical Engineering](#)
- [Boilers & Pressure Vessels](#)

2. Se abrirá un listado con tres pestañas para visualizar: revistas, libros o memorias de conferencias



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Topic Collections >

Aerospace Industry Email Alert

Journals eBooks Proceedings **2**

Journal of Engineering for Gas Turbines and Power | research-article
2016
[Unsteady CFD investigation of effusion cooling process in a lean burn aero-engine combustor](#) 
Lorenzo Mazzei, Alessio Picchi, Antonio Andreini, Bruno Facchini and Ignazio Vitale
J. Eng. Gas Turbines Power (2016); doi:10.1115/1.4034192

Journal of Heat Transfer | research-article
2016
[Impingement Heat Transfer on a Cylindrical, Concave Surface with Varying Jet Geometries](#) 
C. Neil Jordan, Lesley Wright and Daniel C. Crites
J. Heat Transfer (2016); doi:10.1115/1.4034180

Journal of Heat Transfer | research-article

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1. Búsqueda sencilla. En la página principal ingrese un término o palabras. Puede utilizar operadores booleanos para ser más preciso. De clic en el botón "Search" para ejecutar la búsqueda.

2. Link a búsqueda avanzada. De clic para dirigirse a ésta.



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1. Por palabra clave, con opción de limitar resultados por: autor, fecha, publicación

2. Por autor, con opción de limitar resultados por: fecha y publicación

3. Buscar revista o documento específico por: título, DOI o número de documento

4. Localizar un artículo por cita: revista, año, volumen, primera página

5. Buscar memorias de conferencias por nombre de volumen

6. Buscar figuras por palabras clave

1 KEYWORD SEARCH

Enter Search Term

SEARCH FOR: Any All Exact Phrase

2 AUTHOR SEARCH

Author Search

3 FIND SPECIFIC JOURNAL ARTICLE OR PROCEEDINGS PAPER BY:

TITLE

DOI

PAPER NUMBER

4 FIND JOURNAL ARTICLE BY CITATION

CITATION

5 PROCEEDINGS SEARCH:

VOLUME NAME:

6 FIGURE SEARCH:

Enter Search Term

SEARCH TERM(S): Any All Exact Phrase

Listado de Resultados

1 Search Results for **surg* AND robot***

2 **NARROW**

Content Type

Journals (394)
Proceedings (266)

Topics

- Design (198)
- Surgery (161)
- Robots (113)
- Robotics (84)
- Force (70)
- Stress (58)
- Kinematics (50)
- Manipulators (48)
- Motion (48)
- Biological tissues (44)

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4

research-article | July 14, 2016

Design of a Multi-Arms Surgical Robotic System for Optimized Manipulability

Accepted Manuscript

Zhi Li; Dejan Milutinović; Jacob Rosen

J. Mechanisms Robotics. 2016;

JMR-15-1292

doi: 10.1115/1.4034143

PDF

research-article | May 20, 2016

KINEMATIC DESIGN OF A NOVEL 2-DOF PLANAR RCM MECHANISM FOR MINIMALLY INVASIVE SURGICAL ROBOT

Accepted Manuscript

Kang Kong; Jianmin Li; Huaifeng Zhang; Jinhua Li; Shuxin Wang

J. Med. Devices. 2016;

MED-15-1289

doi: 10.1115/1.4033668

PDF

Special Section Technical Briefs | May 12, 2016

A Resectoscope for Robot-Assisted Transurethral Surgery 1

Nima Sarli; Giuseppe Del Giudice; Duke S. Herrell; Nabil Simaan

J. Med. Devices. 2016; 10(2):020911-020911-2.

MED-16-1083

doi: 10.1115/1.4033153

PDF

research-article | May 04, 2016

Estimating Tool-Tissue Forces Using a 3-Degree-of-Freedom Robotic Surgical Tool

Baoliang Zhao; Carl A. Nelson

J. Mechanisms Robotics. 2016; 8(5):051015-051015-10.

JMR-15-1244

doi: 10.1115/1.4032591

PDF

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3. Visualización de resultados: ordenar por relevancia o más reciente; vista básica o con detalles
4. Listado de resultados, para cada uno se incluye la siguiente información: tipo de documento, fecha de publicación, título (al dar clic en éste, nos envía al texto completo HTML), autores, número de artículo, DOI y link al texto completo (PDF)

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Editorial

21st Century Kinematics: Synthesis, Compliance, and Tensegrity 1

J. Michael McCarthy

[\[+\] Author and Article Information](#)

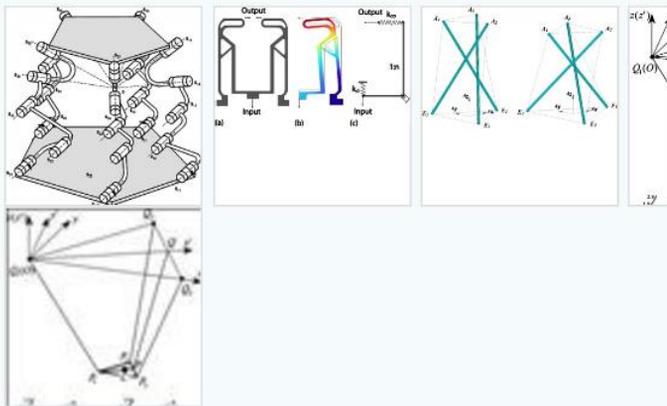
J. Mechanisms Robotics 3(2), 020201 (May 04, 2011) (3 pages)

doi:10.1115/1.4003181

History: Received November 06, 2010; Revised November 12, 2010; Published May 04, 2011; Online May 04, 2011

[ARTICLE](#) | [REFERENCES](#) | [FIGURES](#) | [CITING ARTICLES](#) 2

FIGURES IN THIS ARTICLE



As we move into the second decade of the 21st century, we can identify three research trends that we can expect to persist into the future. They are the analysis and synthesis of (i) spatial mechanisms and robotic systems, (ii) compliant linkage systems, and (iii) tensegrity and cable-driven systems. In each case, we find that researchers are formulating and solving polynomial systems of total degrees that dwarf those

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[The Design of a Chain of Spherical Stephenson Mechanisms for a Gearless Robotic Pitch-Roll Wrist](#)

J. Mech. Des. (March, 2006)

[On a Model of a Pneumatically Actuated Mechanical System](#)

J. Eng. Ind. (February, 1971)

[Synthesis of Bistable Compliant Four-Bar Mechanisms Using Polynomial Homotopy](#)

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