

Begell Digital Portal is a comprehensive online multimedia platform that hosts full-text peer-reviewed journals, databases, references, eBooks, conference proceedings, and multimedia products that provide the latest research data and information across a broad spectrum of engineering and biomedical sciences and applied works. The Portal Collections cover over 35 years of scientific data and includes access to all materials on our website.

Our titles are indexed by major indexing services such as Web of Science, Scopus, Google Scholar, CrossRef, Portico, Chemical Abstracts and many others. The Begell Digital Portal is developed and maintained to serve the educational and research communities.

To access the Portal, select it on the Begell House homepage menu:

www.begellhouse.com

Or use the direct URL: www.begellhouse.com/bdp



You can also use the menu bar at the top of the screen to navigate through the different areas such as journals, eBooks, and more.

The Digital Portal's interface is available in 8 different languages; Select the "English" icon at the top of the screen and choose your preferred language from the dropdown menu.



Overview: Content and Collections

The Begell Digital Portal is split into four main areas:

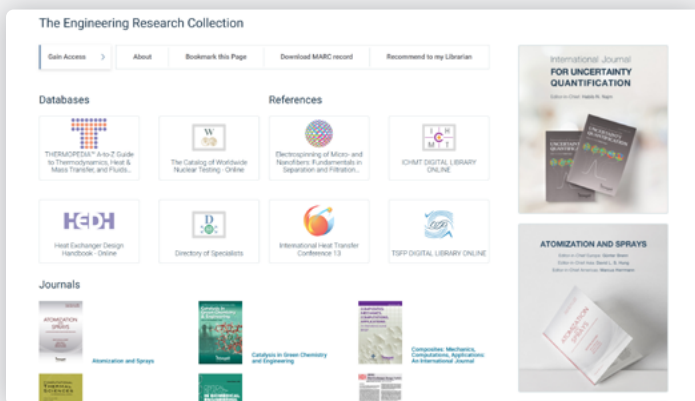
- Engineering Research Collection
- Biomedical Research Collection
- Begell Multimedia Collection
- Begell eBook Platform



The Engineering Research Collection

www.dl.begellhouse.com/collections/engineering.html

The Engineering Research Collection's content focuses mainly on the areas of Aerospace, Chemistry and Chemical Engineering, Energy and Environment, Industry, Mechanical Engineering, and Nuclear & Power Engineering:






JOURNALS

- Atomization and Sprays™
- Catalysis in Green Chemistry and Engineering
- Composites: Mechanics, Computations, Applications: An International Journal
- Computational Thermal Sciences: An International Journal
- Critical Reviews™ in Biomedical Engineering
- Heat Pipe Science and Technology: An International Journal
- Heat Transfer Research
- High Temperature Material Processes: An International Quarterly of High-Technology Plasma Processes
- Hybrid Methods in Engineering
- Interfacial Phenomena and Heat Transfer
- International Journal for Multiscale Computational Engineering
- International Journal for Uncertainty Quantification
- International Journal of Energetic Materials and Chemical Propulsion
- International Journal of Energy for a Clean Environment
- International Journal of Fluid Mechanics Research
- Journal of Automation and Information Sciences
- Journal of Enhanced Heat Transfer

JOURNALS

- Journal of Flow Visualization and Image Processing
- Journal of Machine Learning for Modeling and Computing
- Journal of Porous Media
- Journal of Radio Electronics
- Journal of Women and Minorities in Science and Engineering
- Multiphase Science and Technology
- Nanoscience and Technology: An International Journal
- Plasma Medicine
- Radio Physics and Radio Astronomy
- Special Topics & Reviews in Porous Media: An International Journal
- Telecommunications and Radio Engineering
- TsAGI Science Journal
- Visualization of Mechanical Processes

DATABASES

-  Heat Exchanger Design Handbook ONLINE
-  The Catalog of Worldwide Nuclear Testing
-  THERMOPEDIA +
-  Directory of Specialists

REFERENCES & PROCEEDINGS

-  Annual Review of Heat Transfer Online
-  Electrospinning of Micro- and Nanofibers: Fundamentals in Separation and Filtration Processes
-  International Centre for Heat & Mass Transfer Digital Library
-  Handbook of Molecular Dynamics Potential Functions



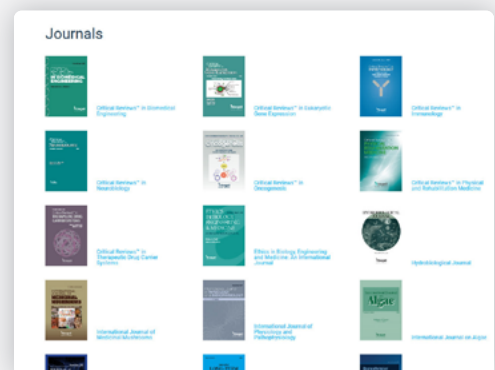
The Biomedical Research Collection

www.dl.begellhouse.com/collections/biomedical.html

The Biomedical Research Collection's content focuses mainly on the areas of Medical Sciences, Biological Sciences and Cancer Research:

JOURNALS

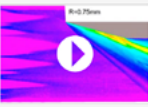
- Critical Reviews™ in Biomedical Engineering
- Critical Reviews™ in Eukaryotic Gene Expression
- Critical Reviews™ in Immunology
- Critical Reviews™ in Neurobiology
- Critical Reviews™ in Oncogenesis
- Critical Reviews™ in Physical and Rehabilitation Medicine
- Critical Reviews™ in Therapeutic Drug Carrier Systems
- Ethics in Biology, Engineering and Medicine
- Hydrobiological Journal
- International Journal of Medicinal Mushrooms
- International Journal of Physiology and Pathophysiology
- International Journal on Algae
- Journal of Environmental Pathology, Toxicology and Oncology
- Journal of Long-Term Effects of Medical Implants
- Neuropathological Diseases
- Plasma Medicine
- Onco Therapeutics
- Visualization of Image Processes and Computation in Biomedicine



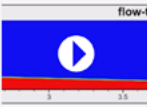
Begell Multimedia Collection

www.begellhouse.com/begell_multimedia


Visit Digital Portal
VISUAL GALLERY




Three-dimensional interference of oblique shock with boundary and high-entropy layers (M=5, induced boundary layer transition)



Evolution of 2D flow interacting with a triangular obstacle



Molekule – My Story of Innovation and Entrepreneurship



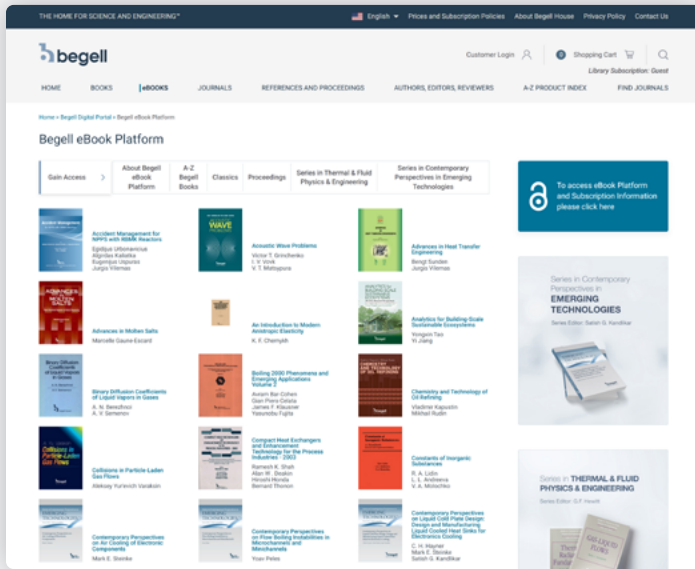
Multi-scale analysis data of oil flow inside an engine (2)

The Begell Multimedia Collection hosts multimedia databases and multimedia journals, presented in an interactive format with videos, animations, unit conversion and simple calculators. Begell Multimedia runs on a semantic search navigation system with built-in taxonomy of thousands of scientific, engineering and biomedical terms.

-  Heat Exchanger Design Handbook Multimedia Edition
-  International Journal on Innovations in Online Education
-  THERMOPEDIA +
-  TEC Talk

Begell eBook Platform

www.begellhouse.com/ebook_platform

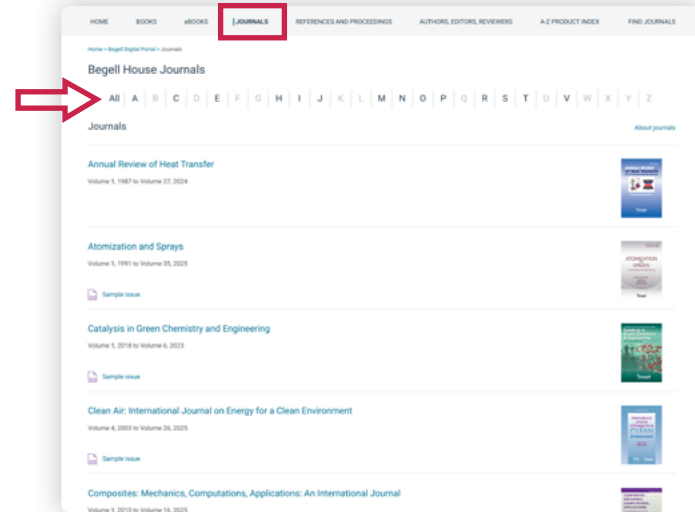


The Begell eBook Platform contains over 130 new and classic books; subjects covered in these eBooks include:

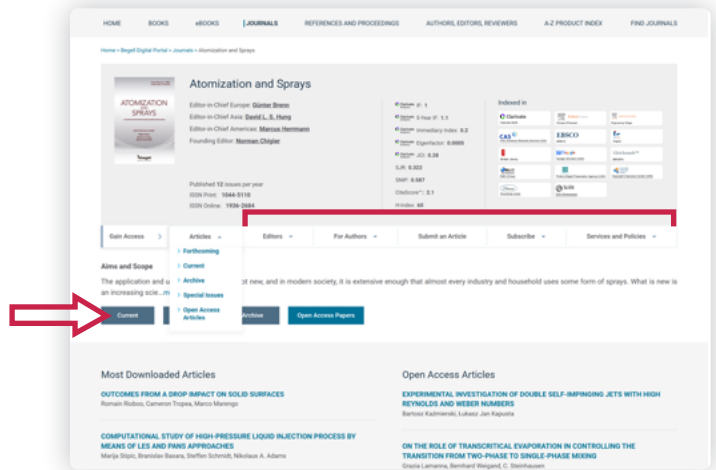
- Advancements in energy and environment
- Aerospace and aerodynamics
- Chemical and petroleum industrial plans, generic applications and technologies
- Computations, modeling and practical designs for engineering disciplines
- Extensive data on thermophysical properties of materials, individual substances and mixtures
- Hydraulics, nuclear power plants and nuclear reactors modeling, practical designs and accident management
- Micro and nano mechanics, energy transfer, processes and technologies: fundamentals and applications
- Physics of fluids, thermal sciences, heat and mass transfer: theoretical and applied
- Supersonic and hypersonic aerodynamics: theoretical and applied

How to Access Journal Articles

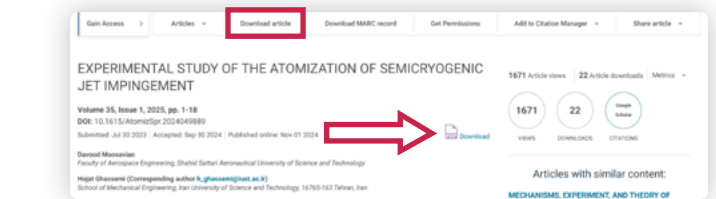
1 Start at www.begellhouse.com/bdp and select “Journals” from the top menu, then choose a journal from the list or use the A-Z menu to filter the titles



2 On the journal's homepage, click the “Articles” tab and choose which volumes you want to access by clicking either “Forthcoming”, “Current”, “Archive” or “Special Issues” in the dropdown menu (or use the buttons under the Aims and Scope)



3 Select an article, then click “Download Article” above the title



Additional Content for Journals

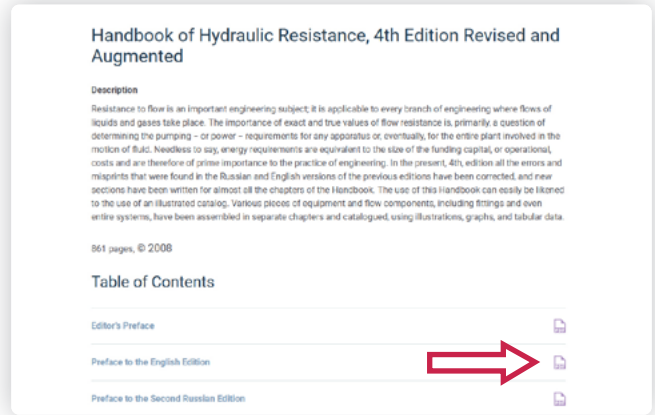
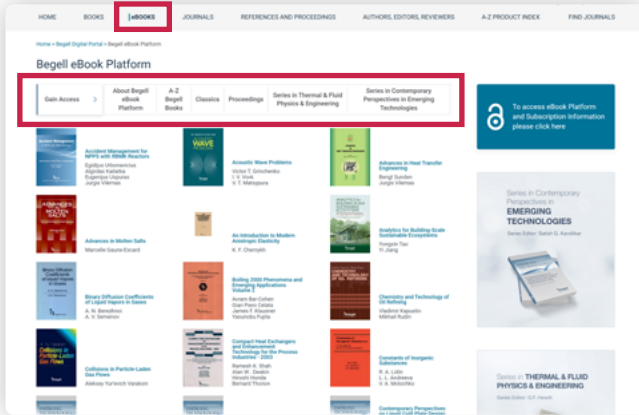
Use the menu on the journal's homepage above to view the Editorial Board, bookmark the page or to subscribe to new issue alerts



How to Access eBooks

1 Start at www.begellhouse.com/bdp and select “eBooks” from the top gray menu

2 Choose a title from any of the five smaller collections and retrieve an eBook’s individual chapters as a PDF file:



How to Access Databases



THERMOPEDIA +

Start at www.thermopedia.com (or from the Digital Portal homepage, scroll down to “Databases” and select from the menu)

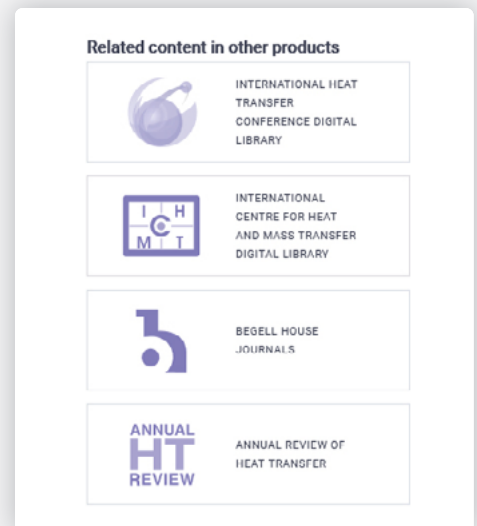
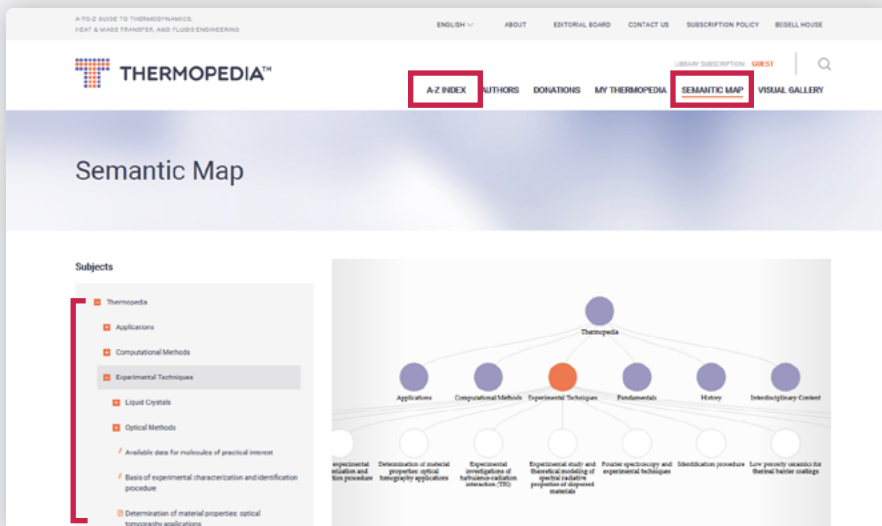
THERMOPEDIA + is an A-to-Z guide of thermodynamics, heat & mass transfer, and fluids engineering. Coverage includes the following areas of engineering, chemistry and physics: chemical, civil, industrial, mechanical, nuclear, petroleum, power

Use the Semantic Map or A-Z Index (on upper right menu bar) to browse articles. One the Semantic Map, click on a major subject area to view all related topics. The left menu bar has all subject areas and articles organized by scientific correlation.

Additional Content:

View videos of types of flows and industrial plant equipment involving fluid mechanics and heat transfer in the Visual Gallery.

Inside each article, users will find “Related Content” (in lower right corner) which links to related articles in other Begell House journals and databases:





The Catalog of Worldwide Nuclear Testing

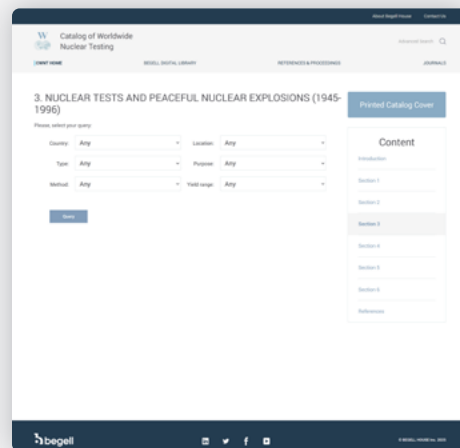
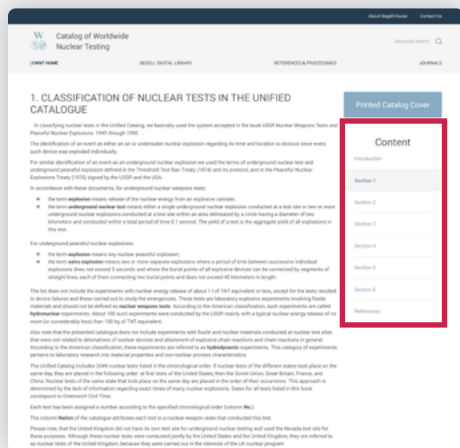
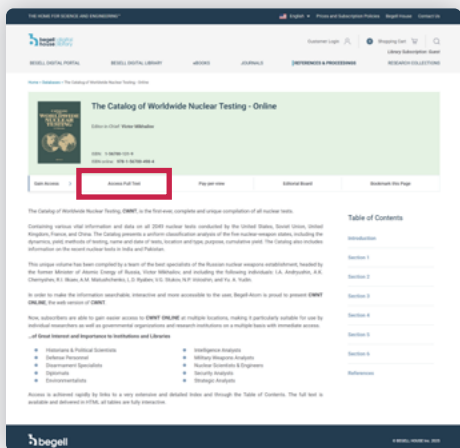
www.dl.begellhouse.com/databases/e-WCNT.html

The Catalog of Worldwide Nuclear Testing is a complete compilation of all nuclear tests. The Catalog presents a uniform classification analysis of the five nuclear weapon states, including the dynamics, yield, and methods of testing. Select "Access Full Text" from

the menu or select a section from the left-side menu to view chapters.

Use the "CONTENT" menu at the right of the screen to move between sections:

Users can search for specific tests by country, company, year and other specifics in Section 3:

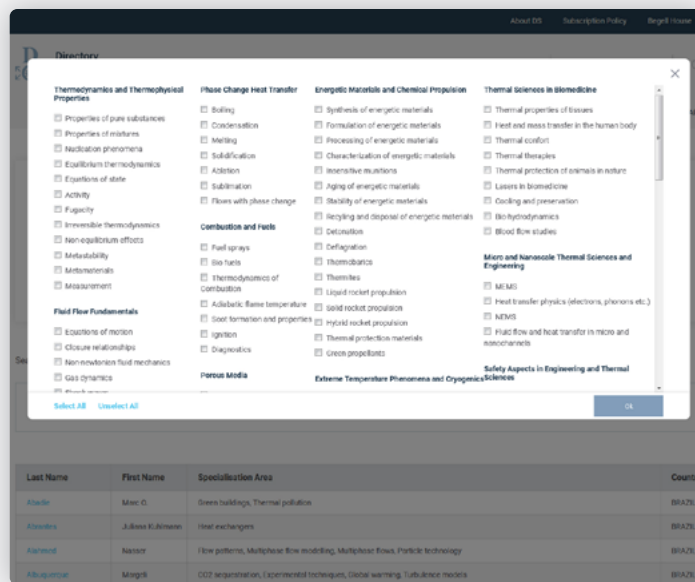
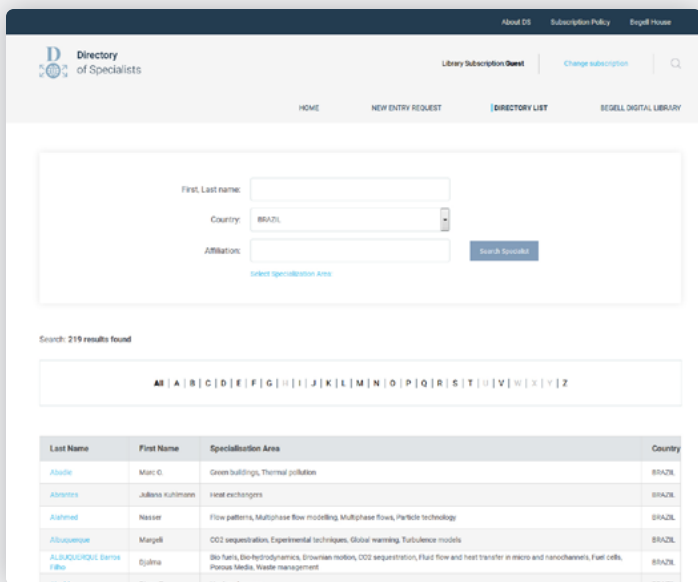


Directly of Specialists

wdst.begellhouse.com

The Directory of Specialists (DS) is an online database containing profiles of engineering specialists from around the world. The Directory offers different industries the ability to search for specialized professionals and their contact information by name or country.

Search by name, country of residence, affiliation or area of expertise. To narrow the search by expertise, click "Select Specialization Area" below the main search fields, choosing those that apply or are desired and click "OK". The Directory is constantly updating contact information for specialists currently listed and new specialists are being added all the time.



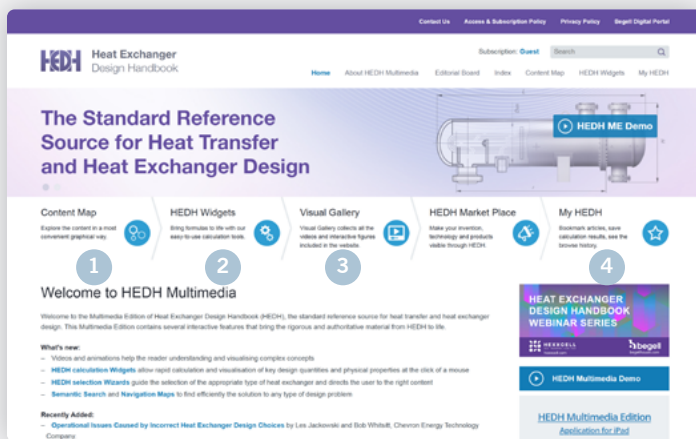


Heat Exchanger Design Handbook (HEDH) Multimedia Edition

HEDH Multimedia Edition is a world-standard reference source for heat exchanger design and the associated technologies. <https://hedhme.com/>

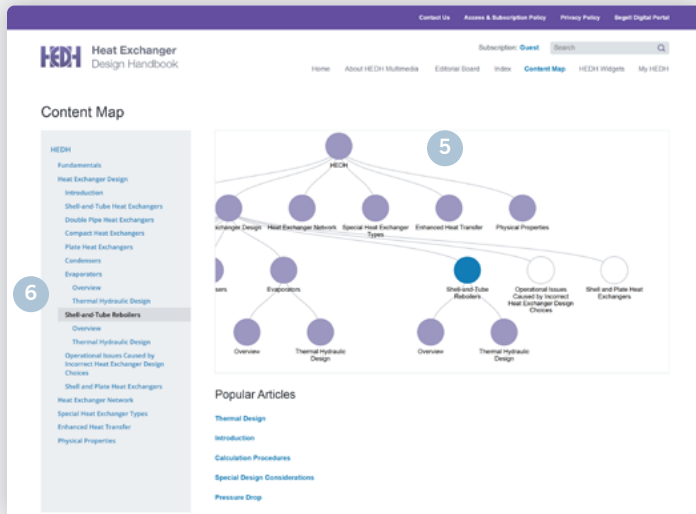
Home page

- Content Map:** Much like THERMOPEDIA +, all articles are interlinked through the Semantic Map; you can also use the left-side menu to navigate
- HEDH-ME Widgets:** Run real calculations with important formulas
- Visual Gallery:** All videos and interactive figures within the database located in one place
- My HEDH:** Bookmark articles, save calculations results and view your browsing history



Content Map

- All articles are interlinked through **Visual Navigation Tree Map** that is based on taxonomy of 8,000 technical terms. The navigation system maintains the hierarchical structure of the various topics and provides interactive visual correlations.
- You can also use left-side basic tree structure for navigation.



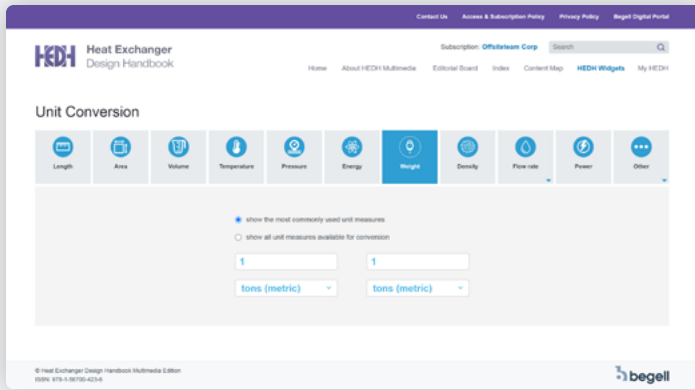
Interactive HTML Articles

- Content Management:** Hover over any in-text citations view the full reference information; use the **"Export Citations"** function in the upper right corner to preview or export citations to EndNote, RefWorks or BibText.
- In-text unit Conversions:** Hover over any measurements in articles to easily convert between different units of measurement
- Interactive 3D Images:** Click the square icon at the base of images to disassemble various types of heat exchangers and visualize the flow inside. All videos and 3D models are also available in the Visual Gallery

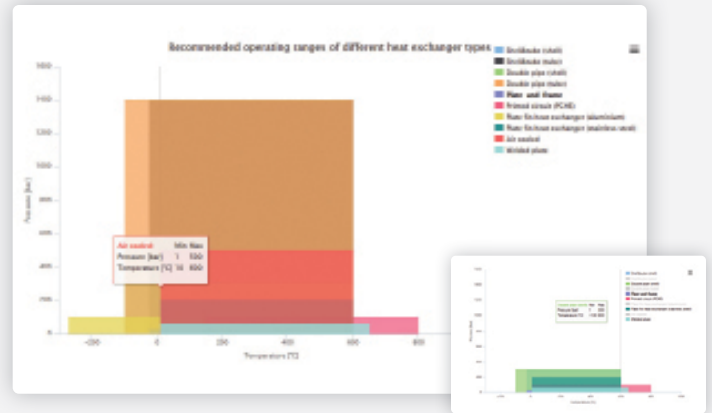


HEDH-ME Calculation Widgets

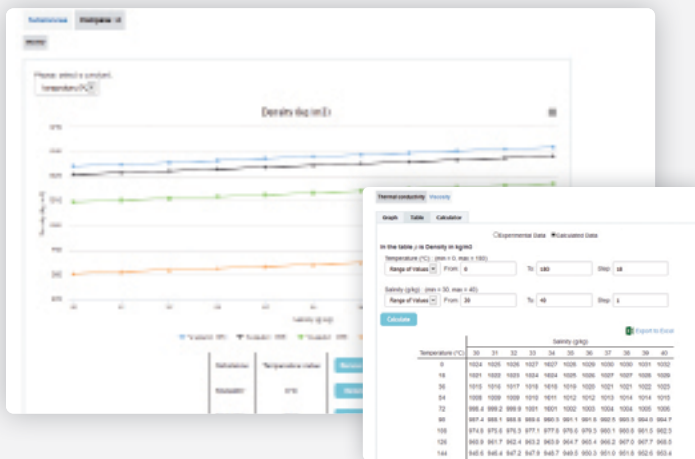
Unit Conversion Widget: Easily convert between different units of measurement



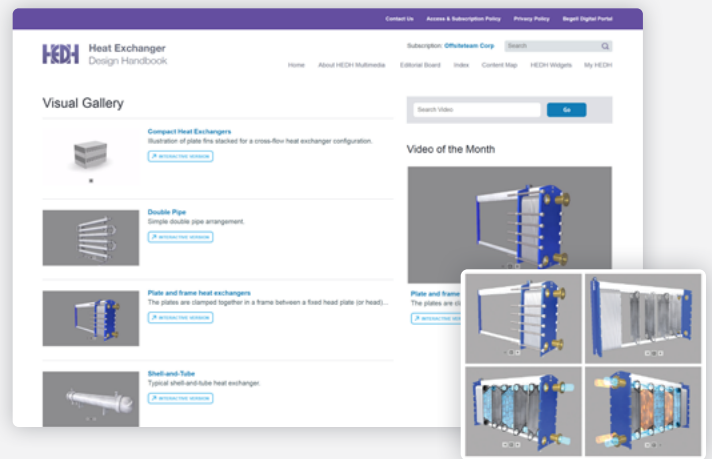
Operating Ranges Widget: Change the recommended operating ranges for types of heat exchanger by selecting/deselecting



Physical Properties Widget: View and plot properties for selected substances at different operating ranges

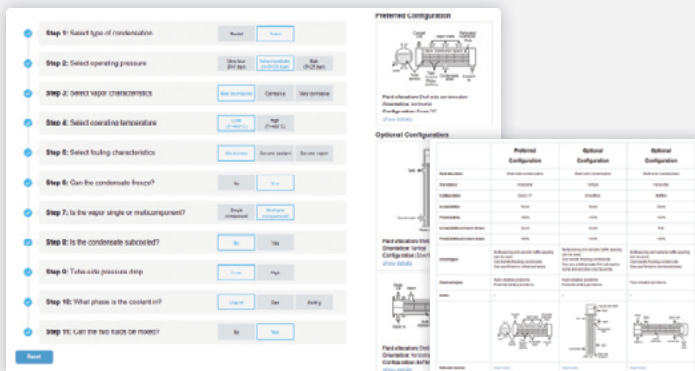


Visual Gallery: Click on a model to start the video OR click “Interactive Version” to disassemble the model



Condenser Type Wizard: This tool will guide you through the selection process of the correct type of heat exchange for a specific service. You will then be directed to relevant sections in HEDH-ME to complete the design of the equipment selected

View the demonstration video for more details about these features: <https://hedhme.com/demo/?lang=pt>



How to Access Proceedings

Begell House maintains Digital Libraries for several professional societies:



International Heat Transfer Conference (IHTC): www.ihtcdigitallibrary.com



International Centre for Heat and Mass Transfer (ICHMT): www.dl.begellhouse.com/references/1bb331655c289a0a.html



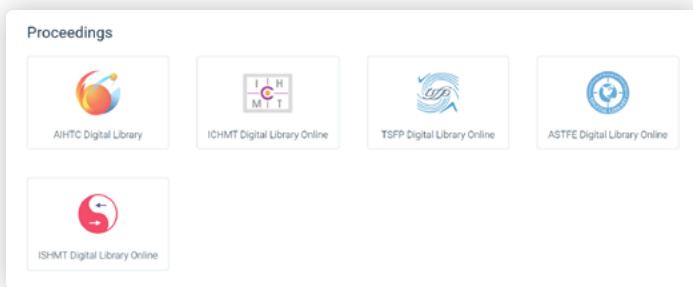
Turbulence and Shear Flow Phenomena (TSFP): www.dl.begellhouse.com/references/3ce1b491115b5c16.html



American Society for Thermal and Fluids Engineers (ASTFE): dl.astfe.org

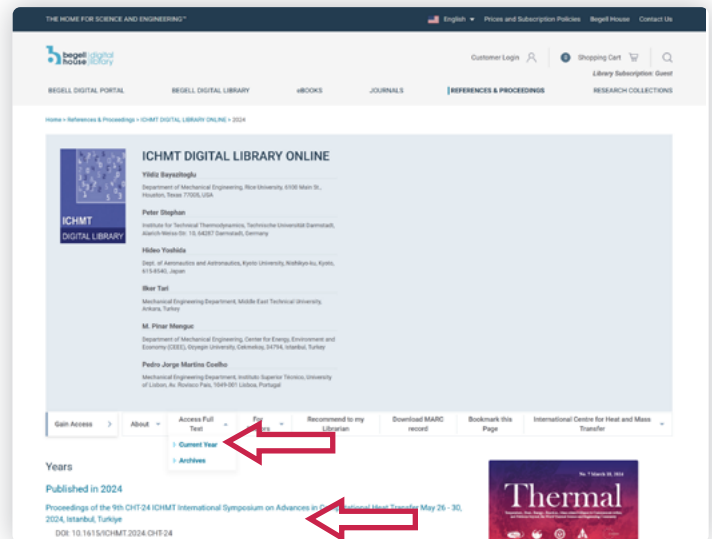


Indian Society for Heat and Mass Transfer (ISHMT): ishmtdigitallibrary.com



Use the links above for direct access, or scroll down to the “Proceedings” section of the Digital Portal homepage.

Select the Digital Library you want to access, then click “Access full text” on that proceeding’s homepage. Proceedings papers can be downloaded in the same way as journal articles.



How to Access References



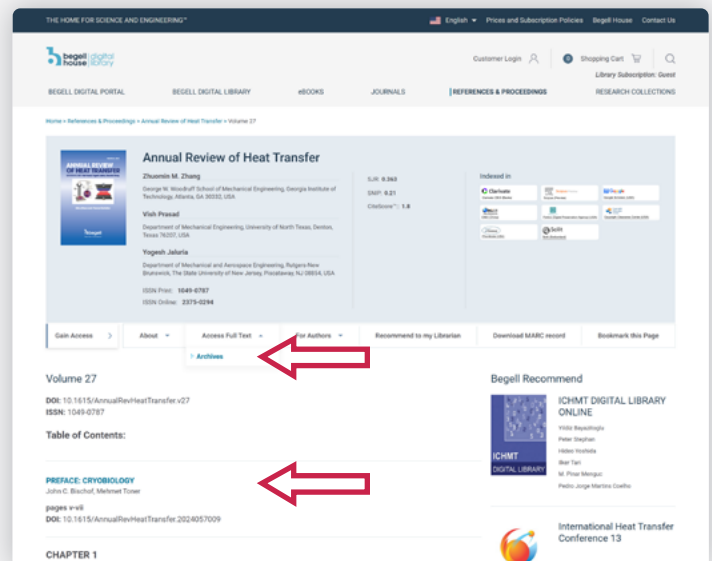
Annual Review of Heat Transfer

www.dl.begellhouse.com/references/5756967540dd1b03

Annual Review of Heat Transfer is an annual publication consisting of invited articles from experts on the subjects of: heat, momentum, and mass transport with applications in energy, manufacturing and others. Some volumes consist of a special theme while other volumes cover a wide variety of topics.

From the Digital Portal homepage, select “Annual Review of Heat Transfer” in the “References” section; select “Access Full Text”, then “Archives” and choose a volume by clicking on “Table of Contents”

Chapters can be downloaded in the same way as journal articles: by clicking on the title and then “Download Article”



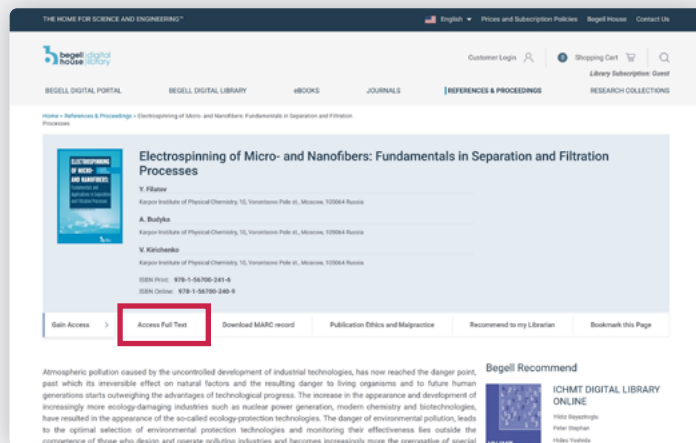


Electrospinning of Micro- and Nano-Fibers: Fundamentals and Applications in Separation and Filtration Processes

www.dl.begellhouse.com/references/259d705b1b5449e7.html

This reference eBook focuses on research in the field of using nano-fibers to reduce environmental pollution caused by industrial technologies, such as nuclear power generation and other ecology-damaging industries.

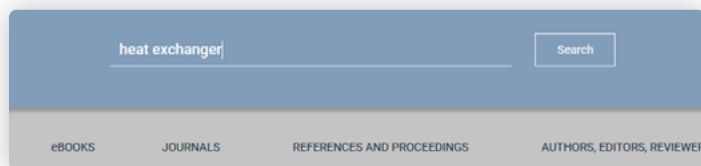
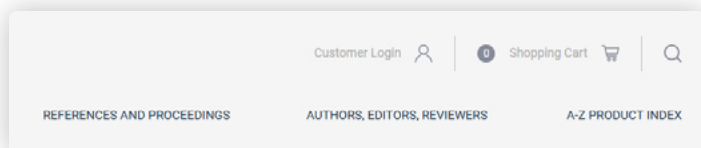
From the Digital Portal homepage, select “Electrospinning of Micro- and Nano-Fibers” from the “References” menu; then click “Access Full Text” on the eBook’s homepage. Download chapters by clicking the “Download” icon.



How to Search

General Search

Use the magnifying glass icon in the top right corner of the screen to search our site for material by topic, key word, author or publication title.



Once the **General Search** results appear, use the **Advanced Search** options to filter your results:

Advanced Search

Filter results by modifying certain items in the search. Options for filtering results:

- Searching by phrase, key word, or “**all of these words**”
- Search by author or publication ISSN/ISBN
- Search by resource type (eBooks and journals, journals only, etc.)
- Narrow results by choosing a time period

The user can also sort the results by “**published date**” or “**relevance**”. This sorting option is located directly above the first search result. You can also filter search results by publication type on the right-side menu “**Filter search results by**”

