



IHS Markit™

Engineering & Product Design

The IHS Engineering Workbench Solution for Standards Management

Helping engineers and others make better decisions faster by
making technical knowledge easier to discover, use & manage

Combining the next-generation search
capabilities of IHS Engineering Workbench with
the library of critical industry standards, codes
and specifications in IHS Standards Expert

IHS Markit – A Trusted Partner for Standards

Single-source access to the world's largest collection of standards, codes, specifications and related documents

More than 1.7 million active and historical standards

Long-term partnerships with key standards organizations to deliver the essential documents Shell engineers use on a daily basis



IHS is the industry leader for access to essential technical documentation

57+
Years delivering trusted solutions for engineers

3200+
Customers across diverse industries

650K+
Engineers accessing our solutions

30K+
Daily logins

IHS Standards Expert – A Trusted Solution



The screenshot shows the IHS Standards Expert website interface. At the top, there is a navigation bar with links for Home, Help, Contact Us, Shopping Cart, IHS menu, Language, and Log Out. Below this is a secondary navigation bar with Search, Favorites, Watch Lists, Alerts, Table of Contents, My Account, Training & Support, and Knowledge Collections. The main content area is divided into several sections: a search sidebar on the left with filters for document type and account notes; a central area with a welcome message and a list of recently viewed documents including ASTM G31 REV A, SAE AS5553B, ISO 9001, MIL-I-8867A, and DUNEDIN VESUVIUS; and a section for IHS Standards Expert News featuring a training course advertisement. The advertisement includes the text 'Thousands of IHS Standards Expert users benefit from IHS training courses every year!' and 'Sign up today for your complimentary training'. To the right of the advertisement is a call to action: 'Found a document but it's not in your subscription? Click the Shopping Cart icon in your search results list to request subscription access or purchase a personal copy. Click to Learn More'. At the bottom left, there is a 'Powered by' logo for IHS.

Enterprise-wide, 24/7 access to critical standards, codes & specifications, plus workflow tools that make engineers more productive



370+
standards organizations worldwide

1.7M+
standards, codes and specifications

Introducing IHS Engineering Workbench

Combining the unique IHS Markit standards library with next-generation search technology, making essential industry standards...

- > **Easier to Discover**
- > **Easier to Use**
- > **Easier to Manage**

...and connecting standards to third-party and internal technical reference content within a single platform.

Industry Standards



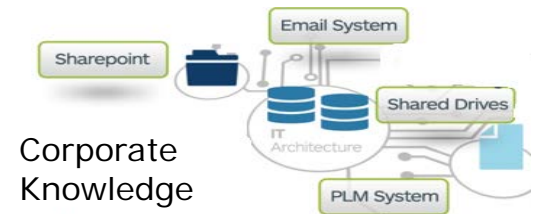
Internal Standards



Technical Publications
Books
Journals
Patents



Vetted WWW
Content
and Expertise



Corporate
Knowledge



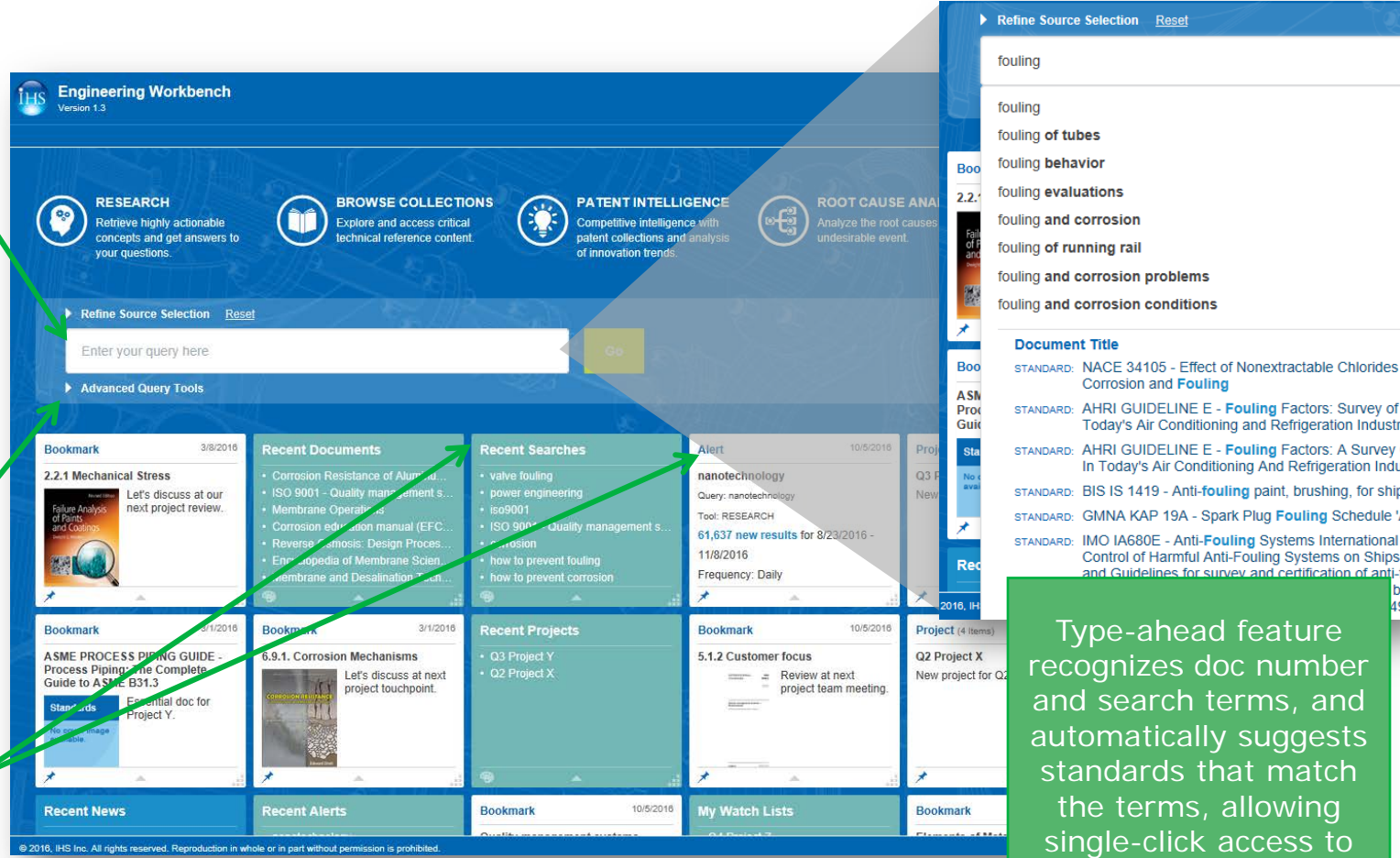
IHS Engineering Workbench

Makes Standards Easier to Discover

Single "Intelligent Search" box distinguishes between document numbers and keywords in search strings

Advanced query tools, with query builder, let users precisely refine their searches

Recent and saved searches, with alert options, make it easy to do ongoing research



Type-ahead feature recognizes doc number and search terms, and automatically suggests standards that match the terms, allowing single-click access to the required document

IHS Engineering Workbench

Makes Standards Easier to Discover

Research Assistant tool acts like a virtual subject matter expert, guiding a user to precise answers in large bodies of content

Graphical interface lets engineers quickly drill down to solution

Faceted filters help users easily refine their searches on the fly, based on date, publisher and more

Your **Research Assistant** is working in the background to explore related queries. Close

Focused information on: corrosion



Filter result by:

- Content Classes
 - Codes & Standards 12,276 >
 - Distribution by knowledge bases...
- Publication Date
 - 1939 - 2017
 - In Between
 - 1939 - 2017
 - Documents without date: 156
 - Select documents for filtering
- Publisher
 - BSI 1,197
 - DIN 882
 - DANSK 787
 - SNV 603
 - ISO 565
 - CEN 508
 - ASTM 299
 - SAE 271
 - API 284
 - IEC 224
 - More... (259)
- Knowledge Collections

Causes and Effects > Preventions
12,276 results from 12,276 documents
Within: Most Recent Revision Keep all results without revisions data

Select Multiple Results

- SAE J447 - Prevention of Corrosion of Motor Vehicle Body and Chassis Components
 - Document Status: **Stabilized**
 - Publication Date: 4/1/2016
 - Publisher: SAE
 - Data Source: Standards Expert - SAE
 - Answer: [design guideline](#)
 - This SAE Information Report provides automotive engineers with the basic principles of corrosion, **design guidelines** to minimize corrosion, and a review of the various materials, treatments, and processes available to inhibit corrosion of both decorative and functional body and chassis components.
 - [Summary](#) | [Save to My Workspaces](#) | [Export Citation](#) | [Bookmark Document](#) | [History](#) | [Add to watch list](#)
- SAE HS J447 - Prevention of Corrosion of Motor Vehicle Body and Chassis Components - Third Edition
 - Document Status: **Cancelled**
 - Superseded by: SAE J447
 - Publication Date: 6/1/1981
 - Publisher: SAE
 - Data Source: Standards Expert - SAE
 - Answer: [design guideline](#)

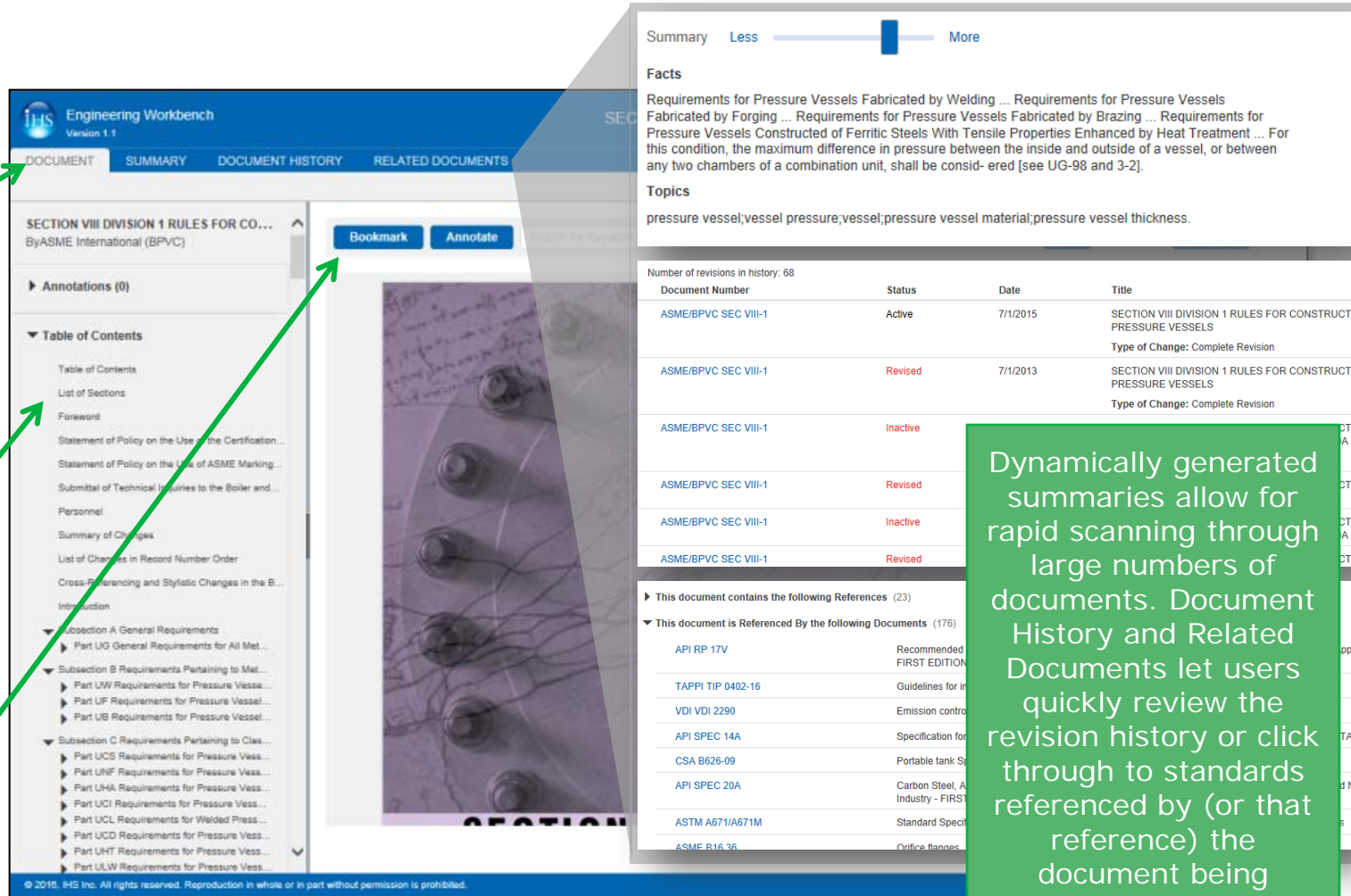
IHS Engineering Workbench

Makes Standards Easier to Use

Document Viewer “streams” documents to allow instant access to even very large documents – no waiting for download

Table of Contents lets users quickly navigate to specific sections

Create Bookmarks for easy access, or Annotations for project notes to preserve knowledge



The screenshot displays the IHS Engineering Workbench interface for a document titled "SECTION VIII DIVISION 1 RULES FOR CO... ByASME International (BPVC)". The interface includes a navigation menu on the left with a "Table of Contents" section, a central document viewer, and a right-hand summary panel. The summary panel shows a "Facts" section with a text snippet, a "Topics" section with a list of terms, and a "Revision History" table.

Document Number	Status	Date	Title
ASME/BPVC SEC VIII-1	Active	7/1/2015	SECTION VIII DIVISION 1 RULES FOR CONSTRUCTION OF PRESSURE VESSELS Type of Change: Complete Revision
ASME/BPVC SEC VIII-1	Revised	7/1/2013	SECTION VIII DIVISION 1 RULES FOR CONSTRUCTION OF PRESSURE VESSELS Type of Change: Complete Revision
ASME/BPVC SEC VIII-1	Inactive		
ASME/BPVC SEC VIII-1	Revised		
ASME/BPVC SEC VIII-1	Inactive		
ASME/BPVC SEC VIII-1	Revised		

Dynamically generated summaries allow for rapid scanning through large numbers of documents. Document History and Related Documents let users quickly review the revision history or click through to standards referenced by (or that reference) the document being reviewed.

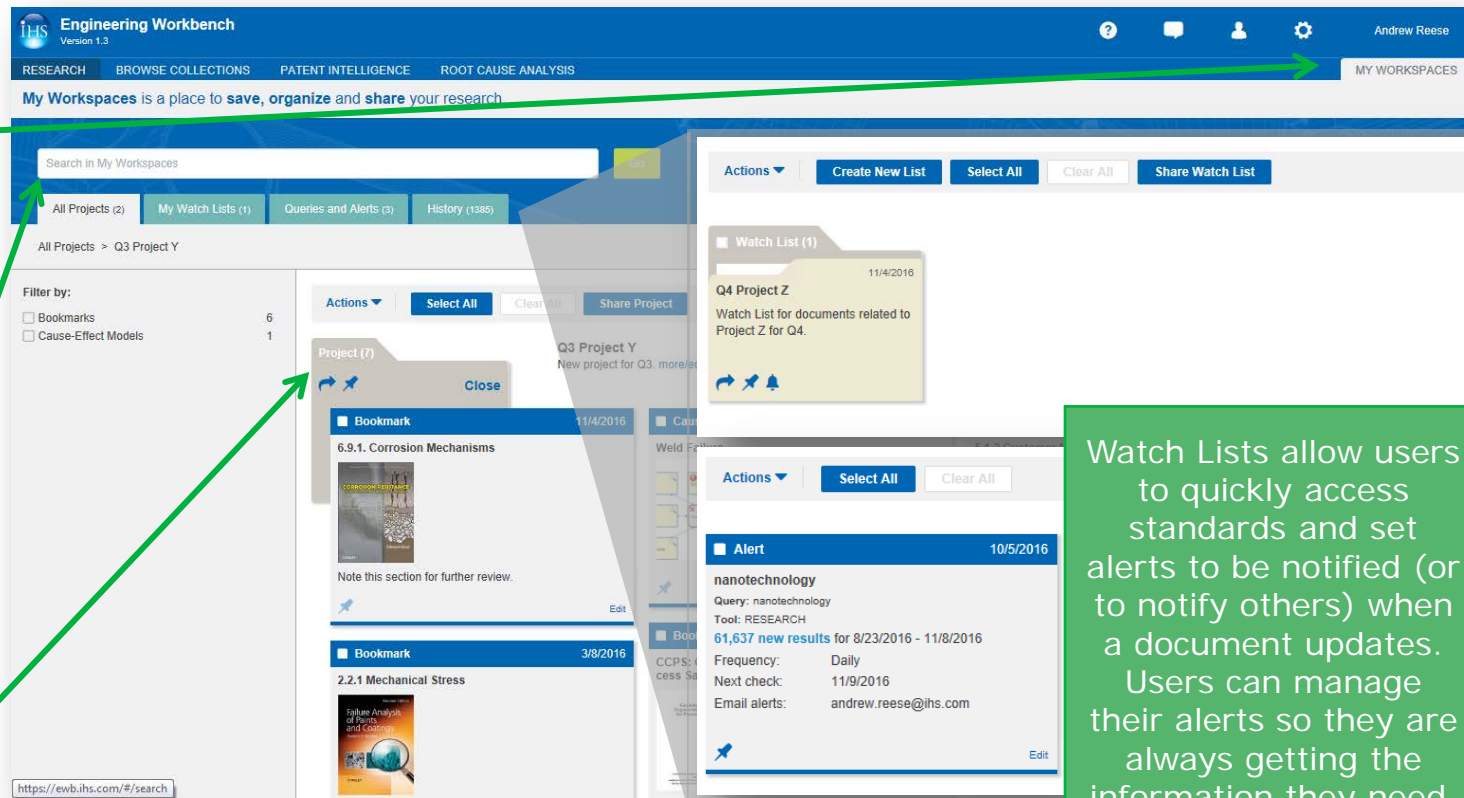
IHS Engineering Workbench

Makes Standards Easier to Manage

My Workspaces puts engineers in control of their personal information and saved content within the platform

Saved content is searchable so users can quickly find needed information

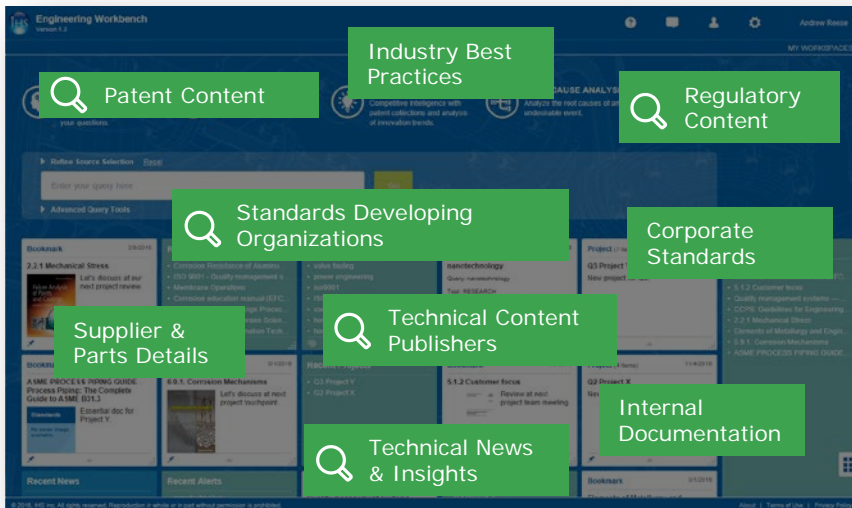
Project Folders are sharable, so teams have a single source of truth for documentation



Watch Lists allow users to quickly access standards and set alerts to be notified (or to notify others) when a document updates. Users can manage their alerts so they are always getting the information they need, when they need it.

IHS Engineering Workbench

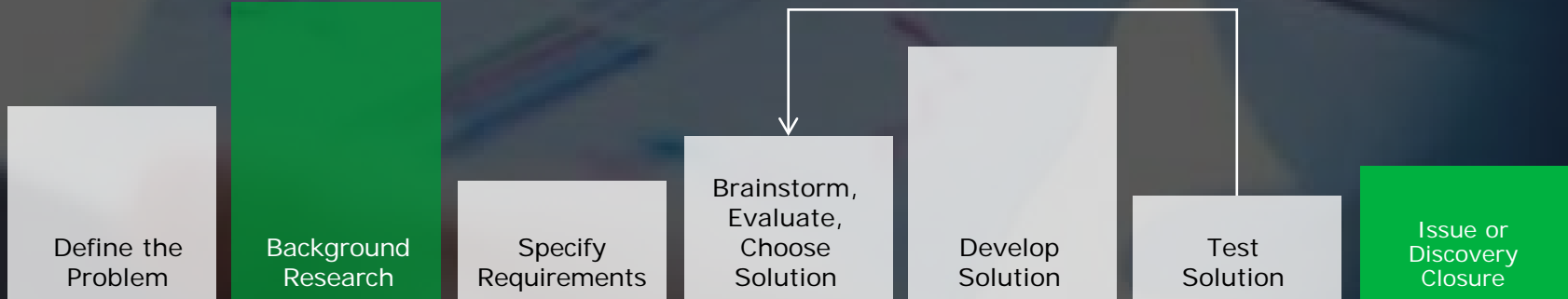
Connects standards to related technical reference across the engineering cycle



One search, comprehensive solutions

With one search, an engineer can identify needed standards (“what to do”) PLUS related third-party and internal technical documentation, best practices, etc. (“how to implement the standards’ requirements”), then store and share all the related content in a single project file

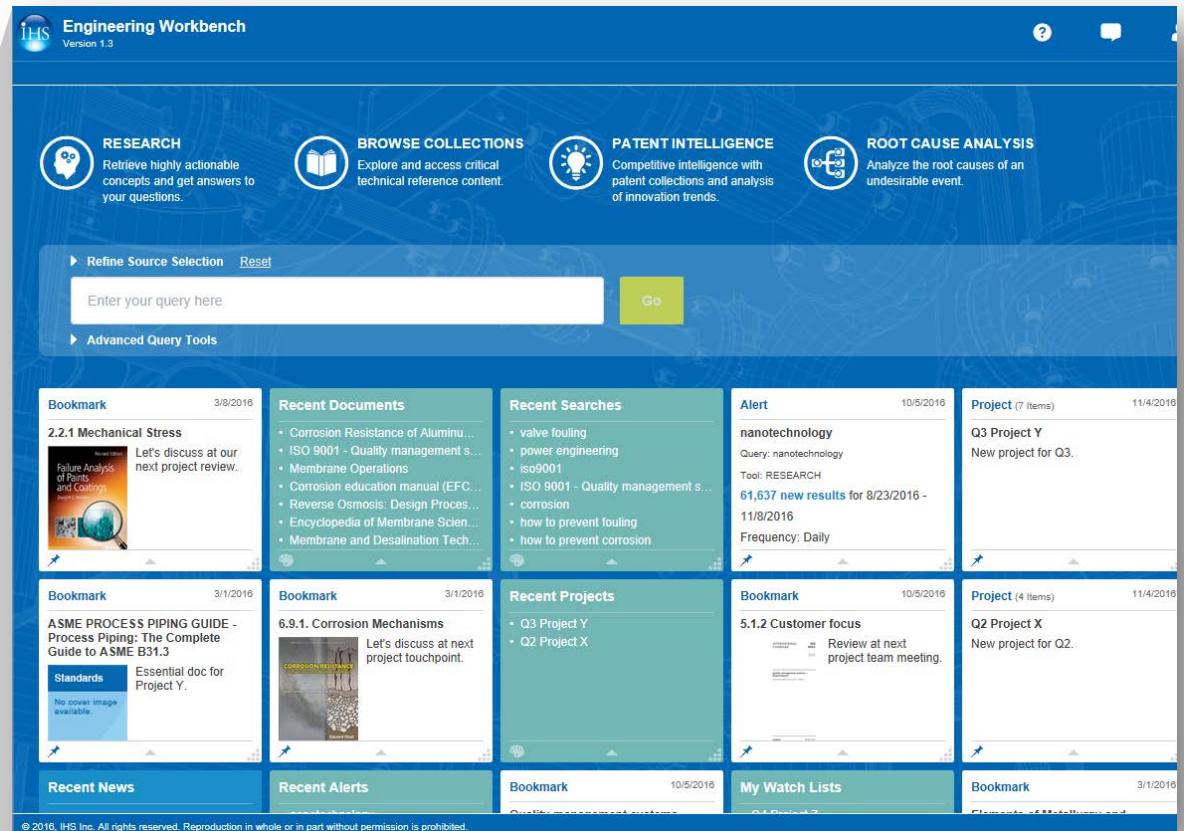
Time Required



IHS Engineering Workbench

The future of unified technical knowledge management for engineers, scientists, researchers and other technical professionals

- Standards
- eBooks
- Journals
- Patents
- Enterprise knowledge
- Problem-solving Tools
- Analytics



The screenshot displays the IHS Engineering Workbench interface, Version 1.3. The dashboard is organized into several sections:

- RESEARCH:** Retrieve highly actionable concepts and get answers to your questions.
- BROWSE COLLECTIONS:** Explore and access critical technical reference content.
- PATENT INTELLIGENCE:** Competitive intelligence with patent collections and analysis of innovation trends.
- ROOT CAUSE ANALYSIS:** Analyze the root causes of an undesirable event.

A central search bar allows users to "Enter your query here" with a "Go" button and "Advanced Query Tools" options. Below the search bar, the dashboard features a grid of widgets:

- Bookmark (3/8/2016):** 2.2.1 Mechanical Stress. Includes a thumbnail for "Failure Analysis of Pipes and Corrosion" and the text "Let's discuss at our next project review."
- Recent Documents:** Lists items such as "Corrosion Resistance of Aluminu...", "ISO 9001 - Quality management s...", "Membrane Operations", "Corrosion education manual (EFC...", "Reverse Osmosis: Design Proces...", "Encyclopedia of Membrane Scien...", and "Membrane and Desalination Tech..."
- Recent Searches:** Lists terms like "valve fouling", "power engineering", "iso9001", "ISO 9001 - Quality management s...", "corrosion", "how to prevent fouling", and "how to prevent corrosion".
- Alert (10/5/2016):** nanotechnology. Query: nanotechnology. Tool: RESEARCH. 61,637 new results for 8/23/2016 - 11/8/2016. Frequency: Daily.
- Project (7 Items) (11/4/2016):** Q3 Project Y. New project for Q3.
- Bookmark (3/1/2016):** ASME PROCESS PIPING GUIDE - Process Piping: The Complete Guide to ASME B31.3. Essential doc for Project Y.
- Bookmark (3/1/2016):** 6.9.1. Corrosion Mechanisms. Let's discuss at next project touchpoint.
- Recent Projects:** Lists "Q3 Project Y" and "Q2 Project X".
- Bookmark (10/5/2016):** 5.1.2 Customer focus. Review at next project team meeting.
- Project (4 Items) (11/4/2016):** Q2 Project X. New project for Q2.
- Recent News:** (Empty widget)
- Recent Alerts:** (Empty widget)
- Bookmark (10/5/2016):** (Empty widget)
- My Watch Lists:** (Empty widget)
- Bookmark (3/1/2016):** (Empty widget)

© 2016, IHS Inc. All rights reserved. Reproduction in whole or in part without permission is prohibited.



Thank You