

# IHS Engineering Workbench

## The Platform for Optimal Decision-making

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EUREKA!  
I've found it!

EMILIO



많은 기관과 기업에서는 개발자의 연구를 위해 엄청난 금액을 투자하고 있습니다.

하지만 정작 실무자들은  
연구개발에 필요한 필수 정보를 제대로  
못 찾고 있습니다.

Clutter

검색시간  
증가

R&D  
중복지출

고령화

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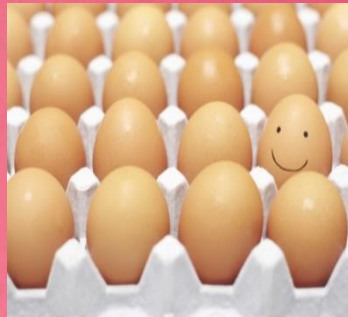
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**IHS는 연구개발에 필요한 시간과 비용을 줄이기 위한 Platform 개발에 많은 노력을 하고 있습니다.**





## 엔지니어들은 다양한 형태의 정보가 필요합니다.

그리고 반드시 다양한 정보소스를 참조해야 합니다.

ASTM G116  
Standard

BSI  
13/30216084

API RP  
540

Roark's Formulas for  
Stress and Strain

Uhlig's Corrosion  
Handbook

Fatigue and Corrosio  
n in Metals

US Patent  
6286785

EU Patent Application  
EP-2690011 A1



Damage Tolerance  
Evaluation AIAA Article

5<sup>th</sup> Int'l Conference on  
Nondestructive Testin  
g Proceedings

"Cracking of  
Panels" Tech  
Brief Article

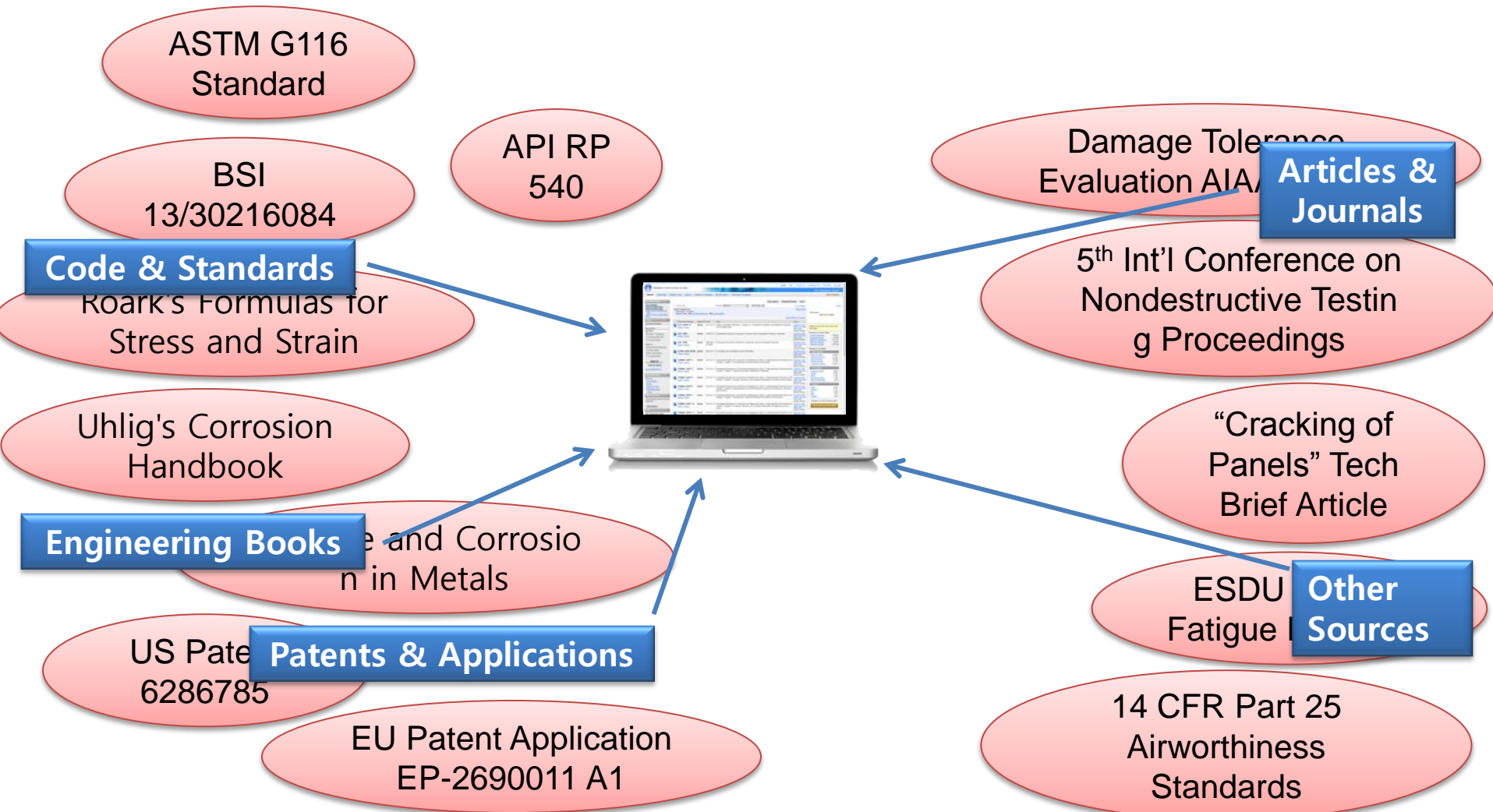
ESDU 06009  
Fatigue Damage

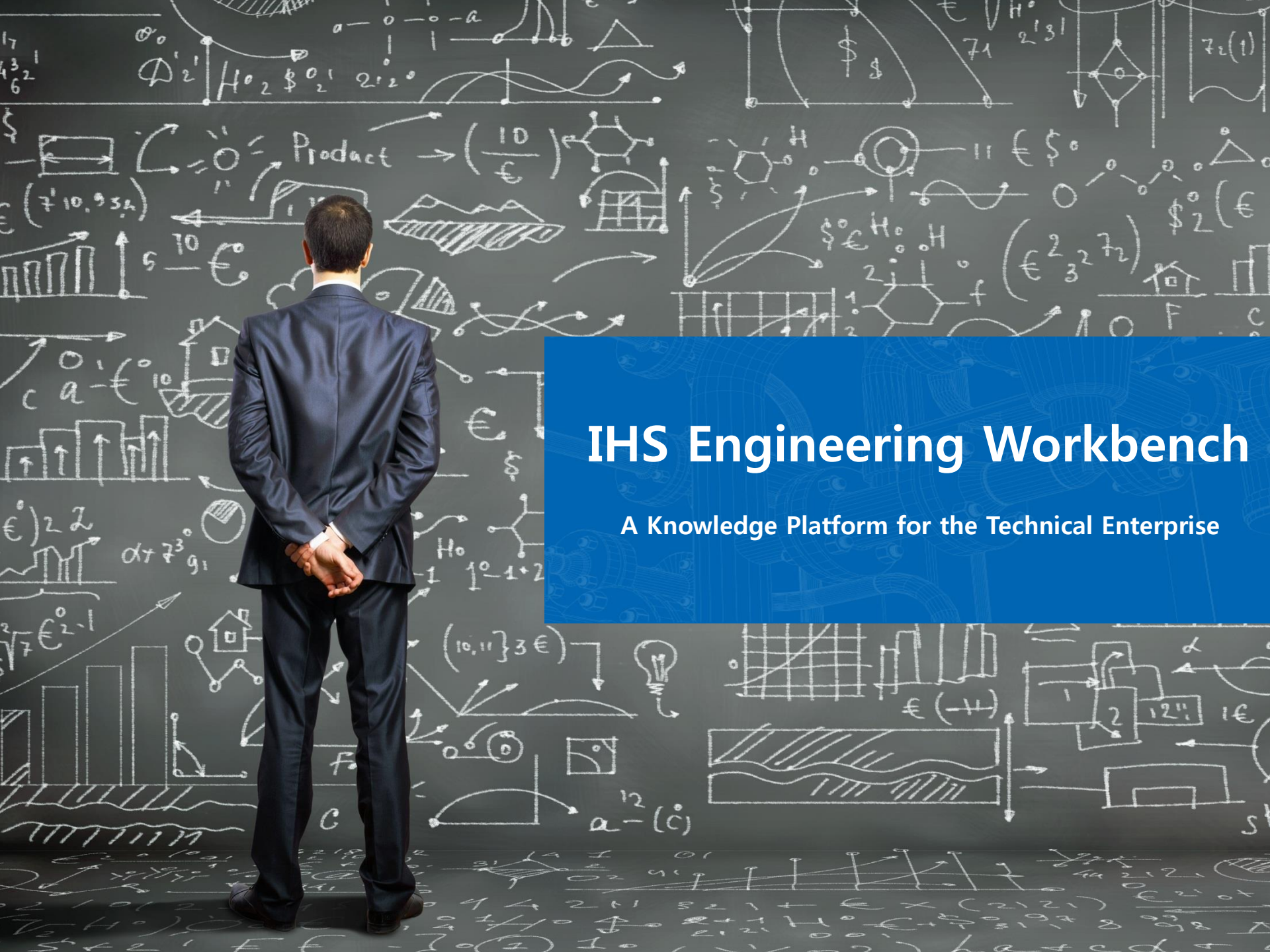
14 CFR Part 25  
Airworthiness  
Standards



### 다양한 카테고리의 정보가 필요합니다.

Including Codes & Standards, Books, Patents, Journal Articles and more







# IHS Engineering Workbench


A Knowledge Platform for the Technical Enterprise


# IHS Engineering Workbench

## Introduction

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Version 1.0

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Explore and access critical technical reference content.

**PATENT INTELLIGENCE**  
Competitive intelligence with patent collections and analysis of innovation trends.

► Refine Source Selection

► Advanced Query Tools

**Recent News**  
GM to Invest \$500 Million in Lyft  
An element of the partnership is joint development of a network of on-demand autonomous vehicles.  
ASTM Standard Offers Guidance on Chemicals in Products

**Recent Searches**  
• heavy ions

**Recent Documents**  
List is empty.

**Recent Bookmarks**  
There are no bookmarks.

**Recent Projects**  
There are no projects.

**Recent Alerts**  
There are no alerts at this time.

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## One Platform Infinite Knowledge

기술 자료 조사와  
문제해결을 위한 IHS의  
통합 지식 플랫폼

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**Recent Projects**  
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**Recent Alerts**  
There are no alerts at this time.

## Better Answers Faster

IHS사의 타 검색 플랫폼보다 빠르고 정확한 정보를 제공합니다.

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Enter your query here

Go

► Advanced Query Tools

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**Recent Searches**

• heavy ions

**Recent Documents**

List is empty.

**Recent Bookmarks**

There are no bookmarks.

**Recent Projects**

There are no projects.

**Recent Alerts**

There are no alerts at this time.

**Intuitive Interface**

보다 편리한 기능과  
화면으로 사용자  
편의가 향상되었습니다.

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 **Go**


**Advanced Query Tools**


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 **The Institution of Engineering and Technology**





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**Recent Documents**  
List is empty.

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There are no bookmarks.

**Recent Projects**  
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**Recent Alerts**  
There are no alerts at this time.

## Functionalities

- 새로운 제품을 개발
- 기존 제품을 개선
- 생산 공정 의 개선
- 결함을 해결 하고 방지
- 전략 제품 및 기술 연구
- 시장 장벽을 제거
- 지적재산권 보호

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**Recent Documents**  
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**Recent Bookmarks**  
There are no bookmarks.

**Recent Projects**  
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**Recent Alerts**  
There are no alerts at this time.

## Multiple Languages

- English
- Chinese
- French
- Germany
- Japanese

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**INTERFACE**

# IHS Engineering Workbench Interface

The screenshot displays the IHS Engineering Workbench Version 1.0 interface. A red rectangular box highlights the top navigation bar containing three main sections: **RESEARCH** (Retrieve highly actionable concepts and get answers to your questions.), **BROWSE COLLECTIONS** (Explore and access critical technical reference content.), and **PATENT INTELLIGENCE** (Competitive intelligence with patent collections and analysis of innovation trends.). Below this, another red box highlights a search area with a 'Refine Source Selection' dropdown, a text input field labeled 'Enter your query here', a 'Go' button, and an 'Advanced Query Tools' link. A third red box highlights a grid of six widgets: 'Recent News' (with two news items), 'Recent Searches' (showing 'heavy ions'), 'Recent Documents' (empty), 'Recent Bookmarks' (empty), 'Recent Projects' (empty), and 'Recent Alerts' (empty). To the right of the interface, three grey callout boxes with white text are present: 'Application Links' (pointing to the top navigation bar), 'Query' (pointing to the search input field), and 'Six Widgets' (pointing to the grid of widgets). The footer of the interface contains a copyright notice: '© 2015, IHS Inc. All rights reserved. Reproduction in whole or in part without permission is prohibited.'

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Version 1.0

**RESEARCH**  
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**BROWSE COLLECTIONS**  
Explore and access critical technical reference content.

**PATENT INTELLIGENCE**  
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Application Links

Refine Source Selection

Enter your query here

Go

Advanced Query Tools

Query

**Recent News**  
GM to Invest \$500 Million in Lyft  
An element of the partnership is joint development of a network of on-demand autonomous vehicles.  
ASTM Standard Offers Guidance on Chemicals in Products

**Recent Searches**  
• heavy ions

**Recent Documents**  
List is empty.

**Recent Bookmarks**  
There are no bookmarks.

**Recent Projects**  
There are no projects.

**Recent Alerts**  
There are no alerts at this time.

Six Widgets

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Research: 기존 Knowledge Collection 자료 검색 기능과 동일 (Semantic Searching)

**Recent News**  
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An element of the partnership is joint development of a network of on-demand autonomous vehicles.  
ASTM Standard Offers Guidance on Chemicals in Products

**Recent Searches**  
• heavy ions

**Recent Documents**  
List is empty.

**Recent Bookmarks**  
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**Recent Projects**  
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**Recent Alerts**  
There are no alerts at this time.

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## Browse Collections: 산업 규범 서적 및 eBook Contents 검색

**Recent News**  
**GM to Invest \$500 Million in Lyft**  
An element of the partnership is joint development of a network of on-demand autonomous vehicles.  
**ASTM Standard Offers Guidance on Chemicals in Products**

**Recent Searches**  
• heavy ions

**Recent Documents**  
List is empty.

**Recent Bookmarks**  
There are no bookmarks.

**Recent Projects**  
There are no projects.

**Recent Alerts**  
There are no alerts at this time.

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Patent Intelligence: 기술자료와 시장 동향을 기반으로 한 특허 분석 및 자료 제공

**Recent News**  
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ASTM Standard Offers Guidance on Chemicals in Products

**Recent Searches**  
• heavy ions

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► Refine Source Selection

► Advanced Query Tools

## IHS Engineering Workbench Main 검색창

development of a network of on-demand autonomous vehicles.

**ASTM Standard Offers Guidance on Chemicals in Products**

**Recent Bookmarks**

There are no bookmarks.

**Recent Projects**

There are no projects.

**Recent Alerts**

There are no alerts at this time.

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# IHS Engineering Workbench Interface

The screenshot displays the IHS Engineering Workbench interface. At the top left, the logo and text "Engineering Workbench Version 1.0" are visible. Below this, three main navigation icons are presented: "RESEARCH" (with a brain icon), "BROWSE COLLECTIONS" (with a book icon), and "PATENT INTELLIGENCE" (with a lightbulb icon). Each icon is accompanied by a brief description of its function. A central search bar is labeled "Refine Source Selection" and contains the placeholder text "Enter your query here", with a "Go" button to its right. Below the search bar, a link for "Advanced Query Tools" is provided. The main content area is divided into six widgets, each with a title and a brief description: "Recent News" (listing GM's investment in Lyft and ASTM's guidance on chemicals), "Recent Searches" (showing a search for "heavy ions"), "Recent Documents" (stating the list is empty), "Recent Bookmarks" (stating there are no bookmarks), "Recent Projects" (stating there are no projects), and "Recent Alerts" (stating there are no alerts at this time). A red rectangular box highlights these six widgets. To the right of the widgets, a dark gray box contains the text "Six Widgets" followed by a bulleted list of the widget names. At the bottom left, a copyright notice reads: "© 2015, IHS Inc. All rights reserved. Reproduction in whole or in part without permission is prohibited."

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► Advanced Query Tools

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**Recent Searches**  
• heavy ions

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**Recent Projects**  
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**Recent Alerts**  
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## Six Widgets

- Recent News
- Recent Searches
- Recent Bookmarks
- Recent Alerts
- Recent Documents
- Recent Projects



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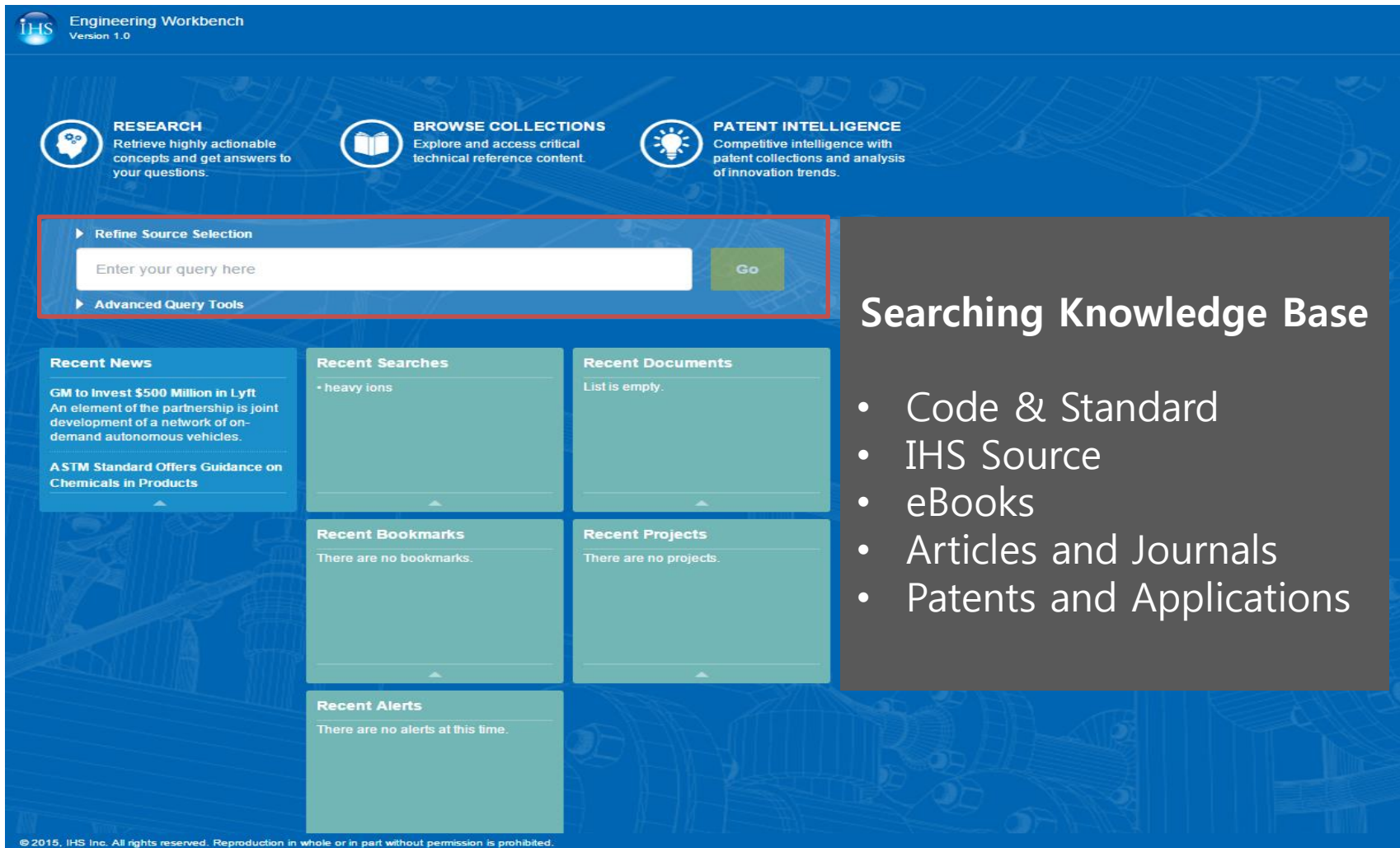
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Enter your query here

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▶ Advanced Query Tools

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**Recent Searches**

• heavy ions

**Recent Documents**

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**Recent Bookmarks**

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**Recent Projects**

There are no projects.

**Recent Alerts**

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## Searching Knowledge Base

- Code & Standard
- IHS Source
- eBooks
- Articles and Journals
- Patents and Applications



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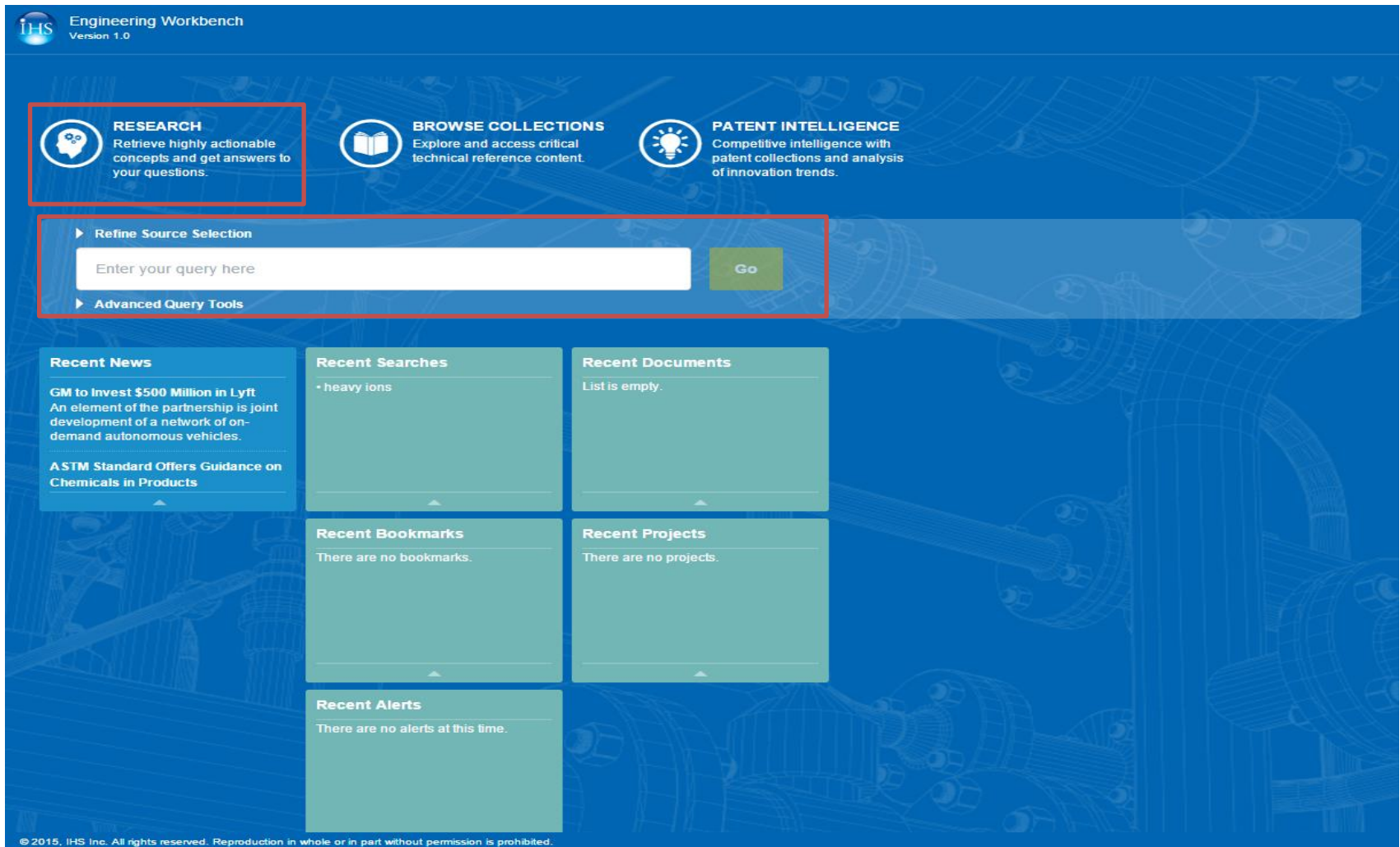
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# SEARCHING GUIDE

# IHS Engineering Workbench

## Searching Guide



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## Searching Guide

[Refine Source Selection](#) [Reset](#)

gps location technology [Go](#) [Synonyms & Ontology Suggestions](#)

[Advanced Query Tools](#)


Filter result by:

196,275 Results

Research Assistant

Content Classes

Publication Date



☐ In ☒ Between

1977 - 2015

Publisher

☐ < This field is missing > 196,137

☐ SAE 138

Site or Domain

☐ < This field is missing > 196,137

☐ specs4.ihsinc.com 138

Document Status

☐ < This field is missing > 196,137

☐ Active 97

☐ Revised 38

☐ Cancelled 2

☐ Draft 1

[Save All Results](#) | [Export All Results](#)

1 US-8085190 B2 Method and apparatus for faster global positioning system (GPS) location using a pre-computed spatial location for tracking GPS satellites

Assignee: Intel Corporation (United States, Santa Clara, CA)  
Publication Date: 12/27/2011  
Data Source: U.S. Granted Patents

In one embodiment, the pre-computed spatial location is determined by a non-GPS based spatial location technology when a receiver is disabled due to the spatial location of the MPD.

[Summary](#) | [Save](#) | [Export](#) | [Bookmark Document](#)

2 US-7403853 B1 Position determination system for movable objects or personnel using GPS/TV location technology integrated with inertial navigation system

Assignee: Trimble Navigation, Ltd (United States, Sunnyvale, CA)  
Publication Date: 7/22/2008  
Data Source: U.S. Granted Patents

[Summary](#) | [Save](#) | [Export](#) | [Bookmark Document](#)

3 US-20050066912 A1 Method and apparatus for training and for constraining a subject to a specific area

Publication Date: 3/31/2005  
Data Source: U.S. Patent Applications

The system of the present invention utilizes GPS location technology to define the boundary.

[Summary](#) | [Save](#) | [Export](#) | [Bookmark Document](#)



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gps location technology [Go](#) [Synonyms & Ontology Suggestions](#)

[Advanced Query Tools](#)

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196,275 Results

Research Assistant

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Save All Results | Export All Results

1 US-8085190 B2 Method and apparatus for faster global positioning system (GPS) location using a pre-computed spatial location for tracking GPS satellites

Assignee: Intel Corporation (United States, Santa Clara, CA)  
Publication Date: 12/27/2011  
Data Source: U.S. Granted Patents

In one embodiment, the pre-computed spatial location is determined by a non-GPS based spatial location technology when a receiver is disabled due to the spatial location of the MPD.

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2 US-7403853 B1 Position determination system for movable objects or personnel using GPS/TV location technology integrated with inertial navigation system

Assignee: Trimble Navigation, Ltd (United States, Sunnyvale, CA)  
Publication Date: 7/22/2008  
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3 US-20050066912 A1 Method and appartus for training and for constraining a subject to a specific area

Publication Date: 3/31/2005  
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The system of the present invention utilizes GPS location technology to define the boundary.

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# IHS Engineering Workbench

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1 US-8085190 B2 Method and apparatus for faster global positioning system (GPS) location using a pre-computed spatial location for tracking GPS satellites

Assignee: Intel Corporation (United States, Santa Clara, CA)  
Publication Date: 12/27/2011  
Data Source: U.S. Granted Patents

In one embodiment, the pre-computed spatial location is determined by a non-GPS based spatial location technology when a receiver is disabled due to the spatial location of the MPD.

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## Visual Contextual Navigation

The diagram illustrates the conceptual structure of 'gps location technology' through a central node connected to various related concepts. The central node is 'gps location technology'. It is connected to 'Parts and Functions', 'Causes and Effects', 'More Specific', 'General Facts', and 'Applications'. 'Parts and Functions' is further connected to 'People & Roles' and 'Parameters'. 'General Facts' is connected to 'Definitions', 'Conc', 'Failures', and 'Properties'. 'Applications' is connected to 'beacon', 'precision farming technique', 'location subsystem', 'derivation of kinematic vehicle location', 'satellite signal', 'GPS polling loop', 'carrier network', 'derivation of motion trajectory parameter', 'real-time location', and 'communication device based on context transition'.

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▼ Content Classes

☐ Patents & Applications 138 >  
Distribution by knowledge bases...

▼ Publication Date

A bar chart showing the distribution of publications from 2002 to 2015. The x-axis represents the years, and the y-axis represents the number of publications. The chart shows a relatively stable number of publications over the years, with a slight increase in the later years.

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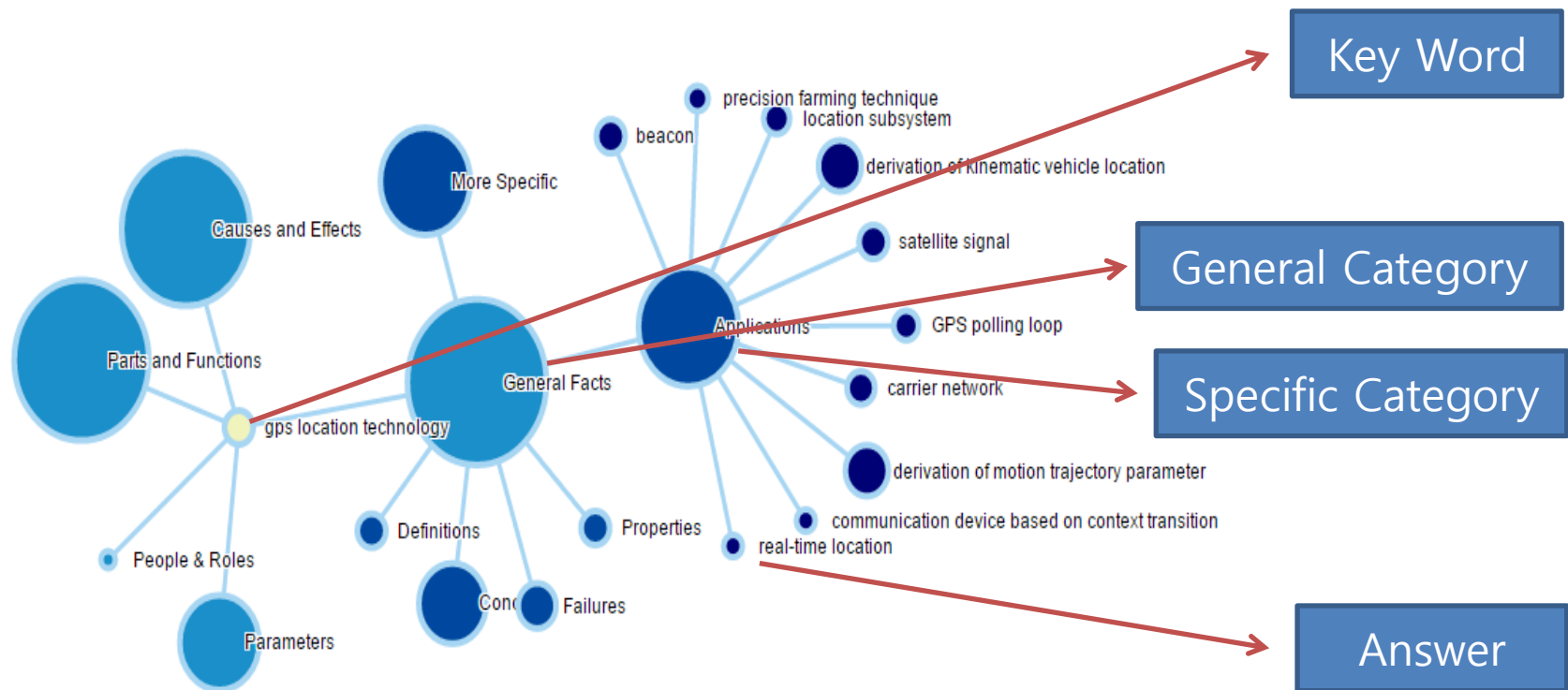
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Focused information on: **gps location technology**



### Visual Contextual Navigation



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### Category View



[General Facts](#) | [Parts and Functions](#) | [Parameters](#) | [Causes and Effects](#) | [People & Roles](#)

#### Definitions



location identification system 1

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#### Properties



JP high cost 1

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#### More Specific



gpsOne® hybrid Assisted GPS wirele... 29  
wireless GPS terminal location techn... 17  
autonomous GPS location technology 9  
use assisted GPS location technology 9  
Hybrid-Assisted GPS location technol... 9

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#### Concepts



GPS-based location tracking technolo... 4  
GPS location technology feature 3  
JP position decision technology of GP... 3  
JP GPS signal of position decision tec... 2  
assisted-GPS location technology me... 1

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#### Failures



JP doesn't make the function due to in... 2

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#### Applications



derivation of kinematic vehicle location 80  
derivation of motion trajectory param... 80  
beacon 9  
satellite signal 9  
carrier network 8

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The screenshot displays the IHS Engineering Workbench search interface. At the top, the header includes the IHS logo, "Engineering Workbench Version 1.0", and navigation tabs for "RESEARCH", "BROWSE COLLECTIONS", and "PATENT INTELLIGENCE". A user profile for "Joseph Hong" is visible in the top right corner.

Below the header, a search bar prompts the user to "Enter your query here" with a "Go" button. A link to "Advanced Query Tools" is also present. A banner in the center reads "1만권 이상의 산업교범 수록" (Over 10,000 industrial standards included).

The left sidebar, titled "Browse by discipline", lists various engineering fields. "Aerospace Engineering" is highlighted with a red box. A red arrow points from this box to the "Aircraft Flight Dynamics and Control" search result.

The main search results area shows several entries:

- Reliability and Risk Models: Setting Reliability Requirements** (Published 11/1/2015): A book providing methods for improving reliability at no extra cost and building reliability networks for engineering systems.
- Aircraft Flight Dynamics and Control** (Published 10/1/2013): A book addressing airplane flight dynamics and control in a largely classical manner, with references to modern treatment throughout.
- Mechanical and Aerospace Engineering IV** (Published 11/14/2013): A collection of selected, peer-reviewed papers from the 2013 4th International Conference on Mechanical and Aerospace Engineering (ICMAE 2013).
- Design and Analysis of Composite Structures: With Applications to Aerospace Structures** (Published 5/1/2013): A book providing a series of analysis and design methods for composite structures.

Each result includes a "Summary" and "Bookmark Document" link. A central list of disciplines is also visible, including Aerospace Engineering, Automotive Engineering, Biomedical Engineering, Chemistry and Chemical Engineering, Civil Engineering, Computer Engineering, Earth Sciences, Electrical Engineering, Electronics, Engineering Management, Environmental Engineering, Food Science, Industrial Engineering, Industrial Safety, Life Sciences, Mechanical Engineering, Metallurgy and Materials Science, Oil and Gas Engineering, Software Engineering, and Other.



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## Searching Guide

Aeronautical Applications of Non-destructive Testing  
By Abbas Fahr

Document Summary

Annotations (0)

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  - 1.3 Aeronautical NDT
  - 1.4 Organization of the Chapters
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- 2 NDT in Aircraft Design, Manufacture, and ...
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- 3 NDT Process
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  - 3.6 Calibrations
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  - 3.8 NDT Signal and Image Processing
  - 3.9 NDT Modeling
  - 3.10 Examples of Non-standard References
  - 3.11 Appendices
  - 3.12 Chapter References

Bookmarks (1) Annotate Search for Keyword... Go < > Go to page 1 of 504 Go

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# Aeronautical Applications of Non-destructive Testing

Abbas Fahr, Ph.D.

Senior Research Officer  
Aerospace Structures, Materials and Manufacturing  
National Research Council Canada

with editorial assistance from  
William Wallace, Ph.D.



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Synonyms & Ontology

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Use advanced mode

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**Examples:**

US-5405213	U.S. : Granted
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Patents Activity (112,717 patents found)

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International Business Machines Corp.	3,794	<div style="width: 30%; height: 10px; background-color: #007bff;"></div>
Microsoft Corp.	3,267	<div style="width: 28%; height: 10px; background-color: #007bff;"></div>
Qualcomm, Inc.	3,110	<div style="width: 27%; height: 10px; background-color: #007bff;"></div>
Intel Corp.	2,995	<div style="width: 26%; height: 10px; background-color: #007bff;"></div>
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Silverbrook, Kia	676	<div style="width: 30%; height: 10px; background-color: #007bff;"></div>
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Lung, Hsiang-Lan	245	<div style="width: 12%; height: 10px; background-color: #007bff;"></div>
Walmsley, Simon Robert	221	<div style="width: 11%; height: 10px; background-color: #007bff;"></div>
Swoboda, Gary L.	198	<div style="width: 10%; height: 10px; background-color: #007bff;"></div>



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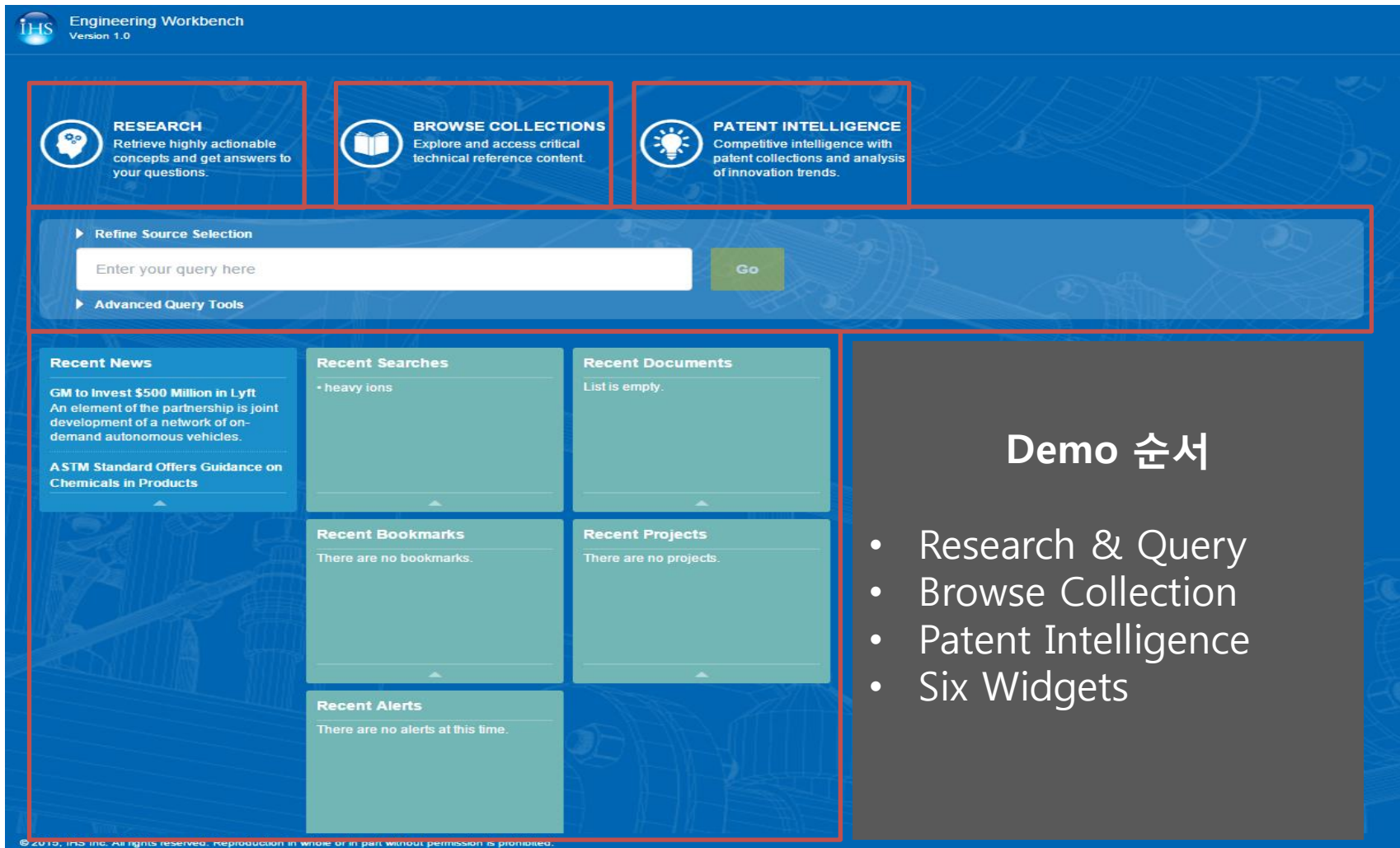
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- 연구개발에 반드시 필요한 자료를 쉽고 빠르게 검색할 수 있습니다.
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