



# *IHS Engineering/University Resource Center (ERC/URC)*

*Prague, 25<sup>th</sup> May 2005*

*Eric LEBOEUF  
Channel Sales Manager - Europe*



# IHS Corporate Overview



## Company

- 45 years as worldwide leader in managing engineering information
- 2,200 Employees
- Represented in over 100 countries



## Customers

- 59,000 customers in 100+ countries
- 50% of Fortune 500 companies and Top DoD contractors



## Technology

- 24x7 redundant hosting center
- Managing over 6 terabytes of data
- Over 20 Million electronic pages of technical info
- Over 120 million part records
- ISO 9001 Certified



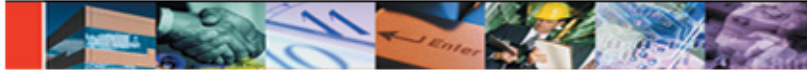


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# *IHS products & Solutions*



- Specs & Standards
- Regulations:
  - Aviation (AV-DATA)
  - Petrochemical (MMS)
  - Health & Safety (CyberRegs)
- Electronic Libraries:
  - Validated Designs (ESDU)
  - Electrical & Electronics (IEEE Electronics Library)
  - Automotive & Mobility (SAE DL and TKC)
- Parts Information
  - Logistics (Haystack)
  - Universal Parts Center
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HAYSTACK is a comprehensive source of parts data, logistics and supplier information, and has served government and industry buyers, vendors, designers, company librarians, and engineers for over 20 years. The new HAYSTACK release contains more than 50 new features and enhancements.

### Aberdeen Group

Download [The Design for Compliance Benchmark Report](#).

HAZMAT compliance deadlines are approaching. IHS provides a [comprehensive solution for HAZMAT data](#) to help you meet environmental compliance requirements.

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- > Corporate Profile
- > Executive Team
- > Board of Directors
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- IHS Spec's & Standards
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GOST



American Petroleum Institute



**BRITISH STANDARD**

**BS EN ISO 9001:2000**

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## Quality management systems — Requirements

BSI

The European Standard EN ISO 9001:2000 has the status of a British Standard

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going Barges-First Edition	INAC-REVD
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ollution Prevention Programs	ACTV-CURR
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# Regulations



- AV-DATA:
  - Aviations Regulations and info to ensure:
    - airworthiness,
    - regulatory compliance
    - and safety of aircraft
  - 1 million pages from international aviation regulatory agencies such as the FAA, JAA, ICAO, UKCAA and FSF
- Mineral Management Service
  - All rules and regulations from the MMS, Department of the Interior, (30 CFR 250 through 30 CFR 282) and the industry standards incorporated by reference (including: API, ASTM, ASME, AWS and NACE)
- CyberRegs:
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  - US Federal/State
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  - >4000 publication titles
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### Publication Information

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IEEE Information

### Others

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#### Homemade

Lipson, H.

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#### How To Hook Worms

Riordan, J.; Vespi, A.; Zamboni, D.

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2005-01-2425

**Title:** Statistical energy analysis (SEA) of a Fuel Cell Vehicle**Publication Date:** 05-16-2005**Content Type:** Technical Papers**Language:** English**Abstract:**

In this paper the application of Statistical energy analysis (SEA) (SEA) to the sound package design for a fuel cell -powered sedan is presented. Fuel cell vehicles represent a different challenge to a vehicle with a conventional powertrain. With the replacement of the internal combustion engine (ICE), a principal source of airborne and structure-borne powertrain noise, the expectation is that the cabin noise levels would be significantly reduced as the main noise sources would be road and wind noise. A fuel cell powertrain, however, has a number of mechanical sources on the body structure that will radiate airborne noise and may transmit significant structure-borne noise to the vehicle interior. With this alternative powertrain, much of the conventional wisdom on vehicle sound package developed from experience with ICE's must be reconsidered. Utilizing an SEA model, the paper discusses the unique problems encountered in designing a noise control package for a fuel cell -based vehicle, the packaging design issues related to space, weight and design restrictions, and presents some initial correlation results. It is concluded that an SEA model can be used to provide design recommendations on the high-frequency NVH performance of the vehicle structure.

**Index Terms:**

[Automobile structures](#); [Electric drives](#); [Electric vehicles](#); [Fuel cells](#); [Noise control](#); [NVH \(noise, vibration, harshness\)](#); [Statistical energy analysis \(SEA\)](#);

**Author(s):**

Name	Affiliation
<a href="#">Terence Connelly</a>	Lear Corp.
<a href="#">John Hollingshead</a>	Ford Motor Co.

**Other Info:**

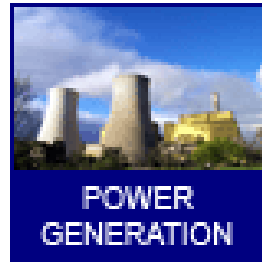
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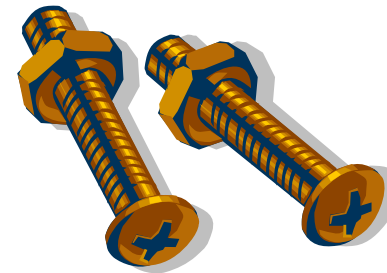
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- eFasteners:
  - Screws, bolts, washers, bushing, pin, spacers
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  - Parametric searching
- Haystack
- Universal Parts Center
- CatalogXpress








**Microprocessor**

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Part Number:	B80532PG0962MS	B80546KG0881M <b>X</b>	BX80532KC3000H <b>X</b>	BX80532KE3060D <b>X</b>
Description:	IC, MICROPROCESSOR, 32-BIT, CMOS, LGA, 775PIN, CERAMIC	IC, MICROPROCESSOR, 32-BIT, CMOS, PGA, 604PIN, PLASTIC	IC, MICROPROCESSOR, 32-BIT, CMOS, PGA, 603PIN, CERAMIC	IC, MICROPROCESSOR, 32-BIT, CMOS, PGA, 603PIN, CERAMIC
Documents:	 <a href="#">Datasheet</a>	<a href="#">Datasheet</a>	<a href="#">Datasheet</a> <a href="#">Datasheet Revision History</a> <a href="#">Product Change Notices</a>	<a href="#">Datasheet</a> <a href="#">Datasheet Revision History</a> <a href="#">Product Change Notices</a>
Life Cycle Forecast:				
QBE Parametric Search:	<a href="#">GO</a>	<a href="#">GO</a>	<a href="#">GO</a>	<a href="#">GO</a>
Manufacturer:	<a href="#">Intel Corp</a>	<a href="#">Intel Corp</a>	<a href="#">Intel Corp</a>	<a href="#">Intel Corp</a>
Price & Availability:	\$	\$	\$	\$
Status:	<a href="#">Active</a>	<a href="#">Active</a>	<a href="#">Active</a>	<a href="#">Active</a>
Technology:	CMOS	CMOS	CMOS	CMOS
Data Word Size (bits):	32	32	32	32
Package Equivalence Code:	LGA775,30X33,46/43	PGA604,25X31,50	PGA603,25X31,50	PGA603,25X31,50
Package Style:	LGA	PGA	PGA	PGA
Package Material:	CERAMIC	PLASTIC	CERAMIC	CERAMIC
Lead-Free:	UNDEF	UNDEF	UNDEF	UNDEF
RoHS Compliant:	UNDEF	UNDEF	UNDEF	UNDEF
# Pins:	775	604	603	603
Mounting Style:	SURFACE MOUNT	THRU-HOLE	THRU-HOLE	THRU-HOLE
Reliability Level:	Comm	Comm	Comm	Comm
Power Supplies (V):	1.55	1.2	1.5,3.3	1.4,3.3
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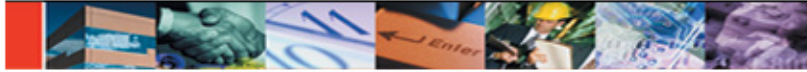
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**Page:** 371-376

**ISSN:** Print: 0042-207X  
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**Article Title:** Fabrication and transport properties of an MgB2 solenoid coil

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<input type="checkbox"/>	4.	Summary	Quote NAVY 44-T-13B	09/01/1938 TUBING, STEEL, SEAMLESS, OIL, STEAM, OR WATER [Superseded by: NAVY MIL 20157C CANC NOTICE 1]
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<input type="checkbox"/>	8.	Summary	GSA Buy A-A-13	06/22/1982 SWEEPING COMPOUND
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