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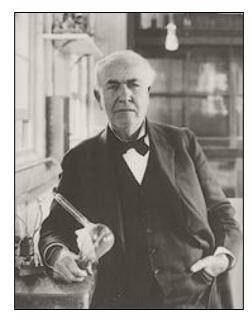
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## **American Institute of Electrical Engineers**

Founding officers of the American Institute of Electrical Engineers in 1884:



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**Alexander Graham Bell** 

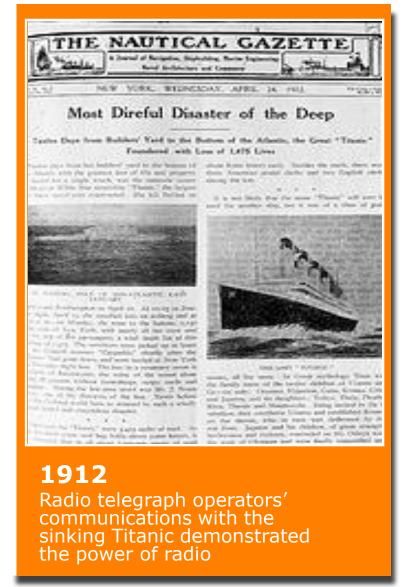


# The Institute of Radio Engineers

Founding member of the Institute of Radio Engineers in 1912:



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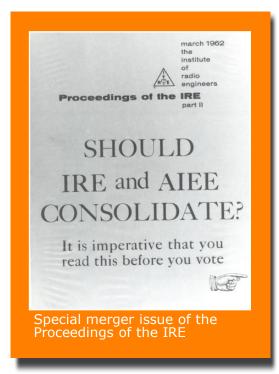




### AIEE + IRE = IEEE

The idea that there should be one organization for all electrical engineers was an old one, and became more powerful as the profession expanded beyond its separate roots in power and radio. In 1962, the boards and memberships of the two institutes agreed to merge. On January 1, 1963, the Institute of Electrical and Electronic Engineers was born with 150,000 members.



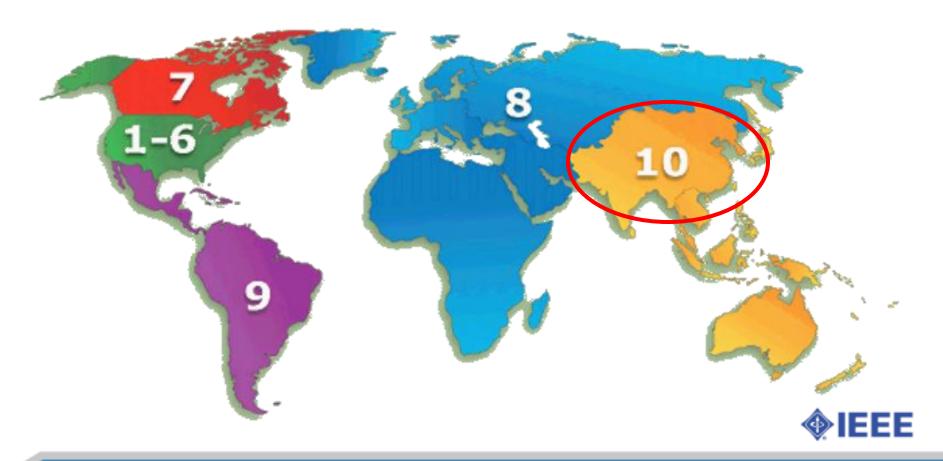






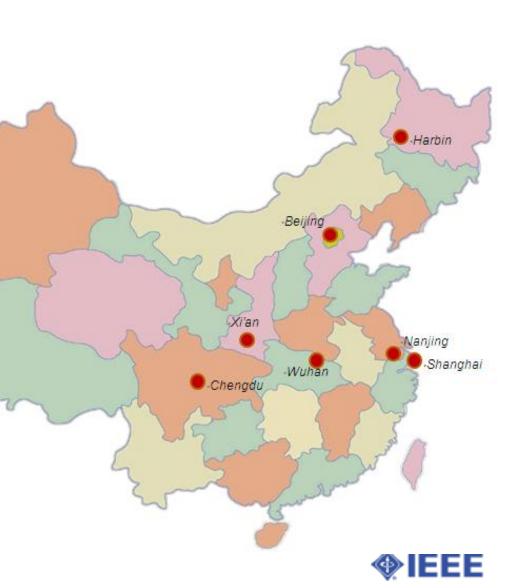
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- 7个分会(Section):北京,上海,成都,武汉,哈尔滨,西安,南京
- 25个学生分会(Student Branch)分布在北京,上海,南京,武汉,西安,山东等地
- IEEE中国代表处于2007年在 北京成立,中文网站: http://cn.ieee.org/



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    - 1860 专业技术委员会
    - 80个国家的1,789 个学生分会
- 每年在全球范围内举办1000多场会议
- 出版世界电气电子工程和计算机领域30%的文献
- 提供900多个现行的产业标准,及400个正在制定的标准







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More than just electrical engineering & computer science

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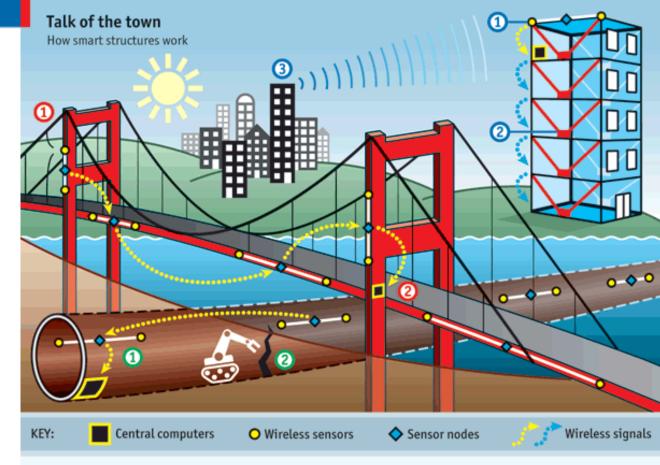
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- 该技术领域的核心期刊和会议有哪些
- 等等



### 科研课题:

### Sensor networks

### Energy Harvesting



#### **SMART BUILDING**

- Sensors in a building monitor the building's movement in response to strong winds or earthquake tremors.
- Shock absorbers (hydraulic dampers) can then be made to stiffen or relax and heavy weights (mass dampers) can be moved to reduce oscillations in strong winds, or minimise damage in the event of an earthquake.
- Buildings that detect an earthquake tremor could even warn other buildings nearby of the approach of a shockwave, so they could sound an alarm and prepare themselves accordingly.

#### SMART BRIDGE

- Wireless sensors mounted on the bridge monitor vibrations, displacement and temperature. This information then "hops" across the network of sensor nodes to a central computer for analysis.
- 2. If a problem is detected, such as a loose bolt or cable, or the beginning of a crack, a warning can be sent by SMS.

#### SMART TUNNEL

- Wireless sensors mounted on the walls of a tunnel monitor displacement, temperature and humidity. This information then "hops" across the network of sensor nodes to a central computer for analysis.
- If a problem with the tunnel lining is detected, appropriate maintenance can be carried out. In future, a smart tunnel could even use robots to perform some maintenance tasks automatically.

### 所研究技术当前的研发状况





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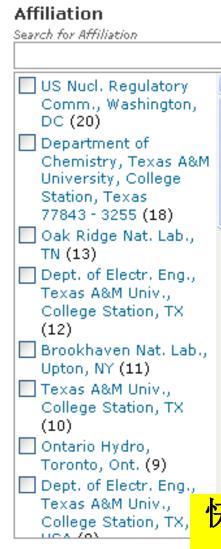
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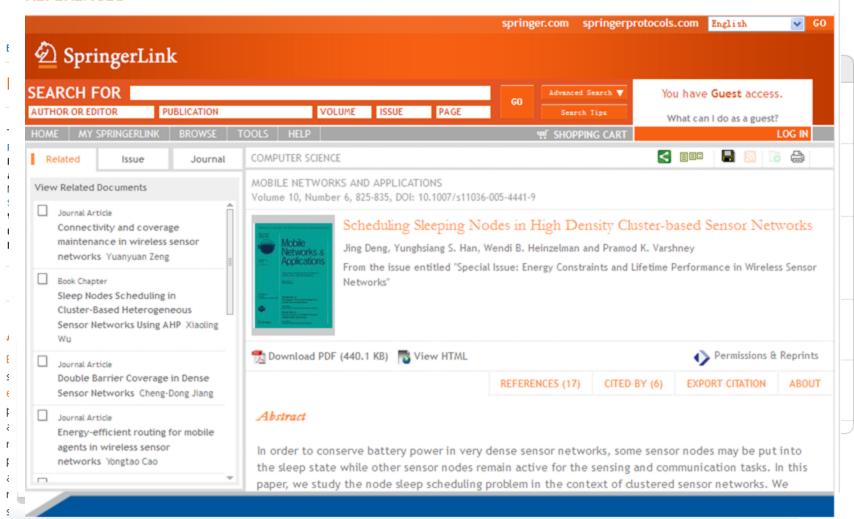
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▶ Energy Harvesting Device

#### REFERENCES



article presents a whirlwind survey through energy harvesting, spanning historic and current developments.



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7. Stipanovicì闆, DusìŒan M. Hokayem, Peter F. Spong, Mark W. SìŒiljak, Dragoslav D. "Cooperative Avoidance Control for Multiagent Systems", *Journal of Dynamic Systems Measurement and Control*, Volume.129, Issue.5, pp.699, 2007, ISSN: 00220434,

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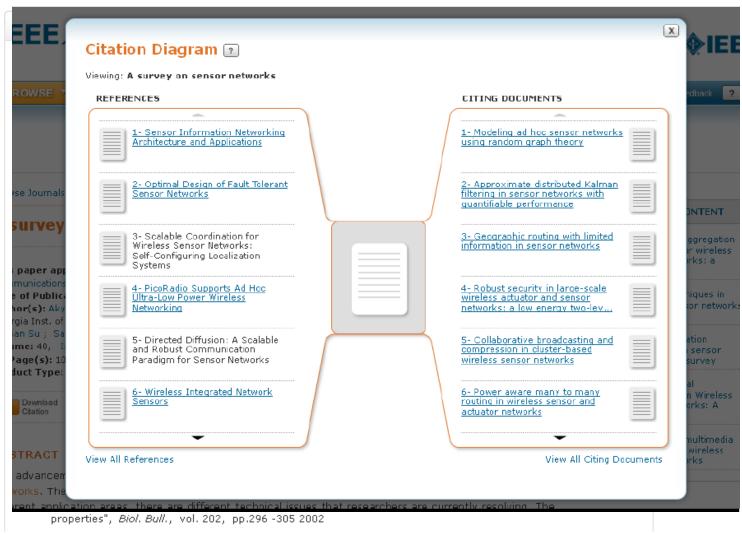
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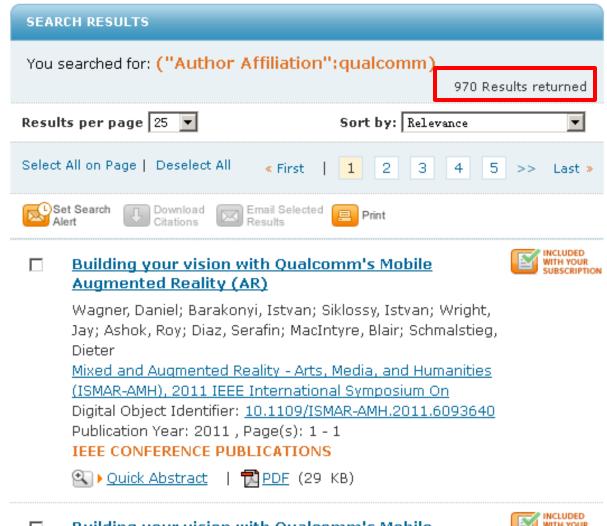
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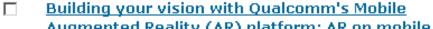
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**Yisheng Xue** (M'08) received the Ph.D. degree in electronic engineering from Tsinghua University, Quick Beijing, China, in 2002.



From August 2002 to October 2004, he was a Postdoctoral Researcher with the University of Duisburg-Essen, Duisburg, Germany. From November 2004 to June 2005, he held a research associate position with the Department of Electrical and Computer Engineering, McGill University, Montreal, QC, Canada. Between August 2005 to August 2007, he was a Senior Research Scientist with Siemens

Corporate Technology, Beijing. He was with the Motorola Labs, Beijing, between August 2007 and September 2008. Since September 2008, he has been with QualComm Wireless Communication Technologies, China Ltd. His research interests include protocol design and signal processing for wireless communications.





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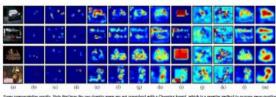
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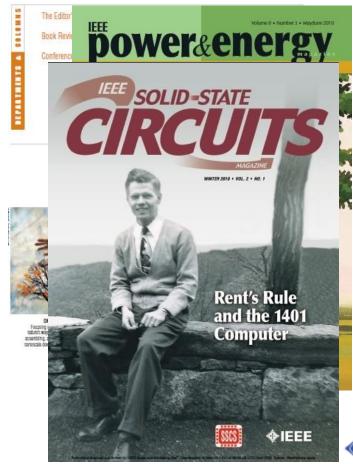
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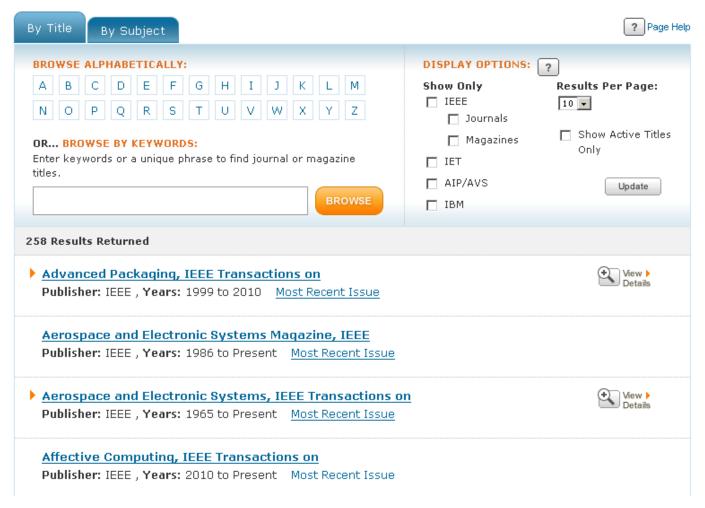
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- BWC for high speed vehicle control systems

- Radio resource allocation to high speed vehicles
- Fast and reliable handover and random access schemes
- Wireless channel modeling and estimation
- Effects of Doppler spread
- Modulation schemes for high speed vehicles
- Antenna array and MIMO
- Prototype and field tests

#### **Guest Editors:**

Prof. Yiqing Zhou, Advanced Wireless Center, ICT/CAS, China (zhouyiqing@ict.ac.cn)

Prof. Fumiyuki Adachi, Tohoku University, Japan (adachi@ecei.tohoku.ac.jp)

Prof. Xiaodong Wang, Columbia University, USA (wangx@ee.columbia.edu)

Prof. Athanassios Manikas, Imperial College, United Kingdom, (a.manikas@imperial.ac.uk)

Prof. Xi Zhang, Texas A&M University, USA (xizhang@ece.tamu.edu)

Prof. Wei-Ping Zhu, Concordia University, Canada (weiping@ece.concordia.ca)



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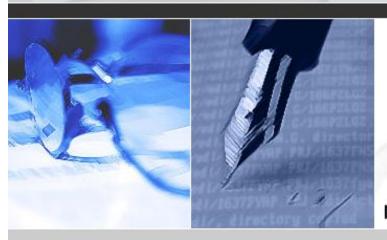
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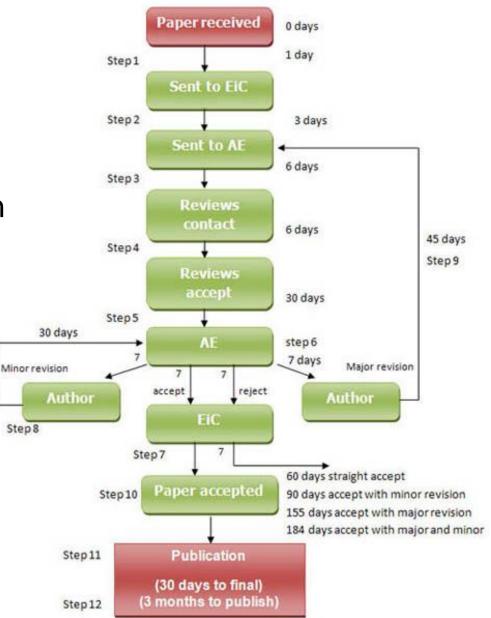
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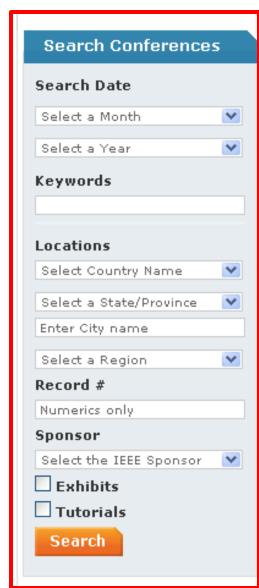








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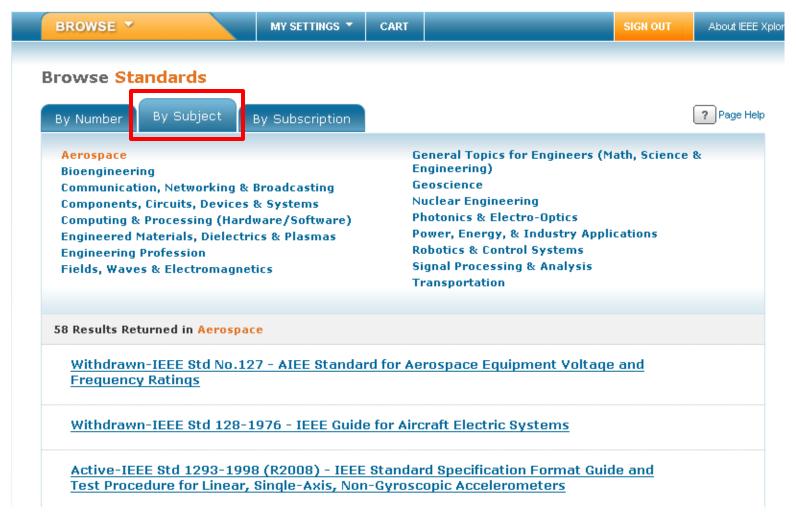
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Designation: P2030

Sponsor: SASB/SCC21-

Title: Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (E

Applications and Loads

Status: New Standard Project

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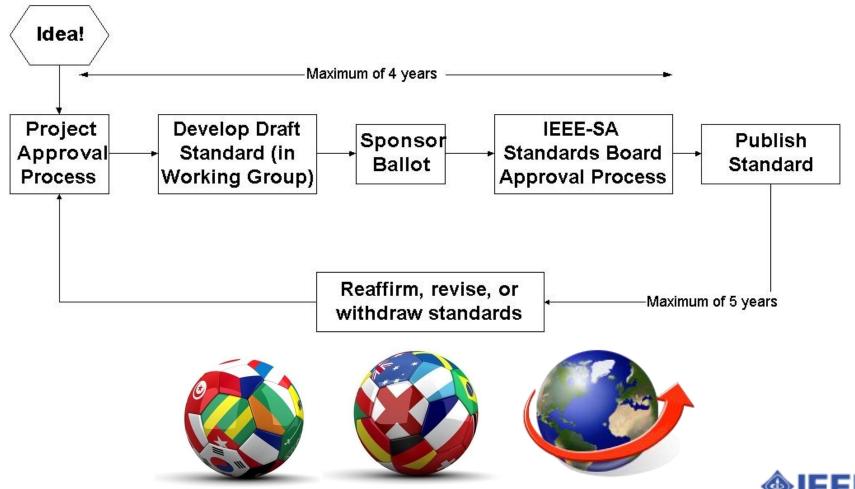
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**Project scope:** This document provides guidelines for smart grid interoperability. This guide provides a knowledge base addressing termin characteristics, functional performance and evaluation criteria, and the application of engineering principles for smart grid interoperal electric power system with end use applications and loads. The guide discusses alternate approaches to good practices for the smart grid

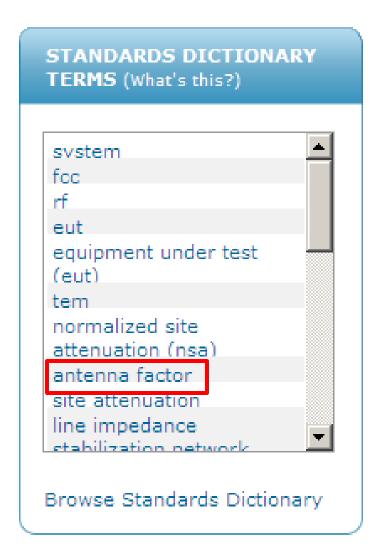
Project purpose: This standard provides guidelines in understanding and defining smart grid interoperability of the electric power systemapplications and loads. Integration of energy technology and information and communications technology is necessary to achieve seamless electric generation, delivery, and end-use benefits to permit two way power flow with communication and control. Interconnection and interameworks and strategies with design definitions are addressed in this standard, providing guidance in expanding the current knowledge knowledge base is needed as a key element in grid architectural designs and operation to promote a more reliable and flexible electric p



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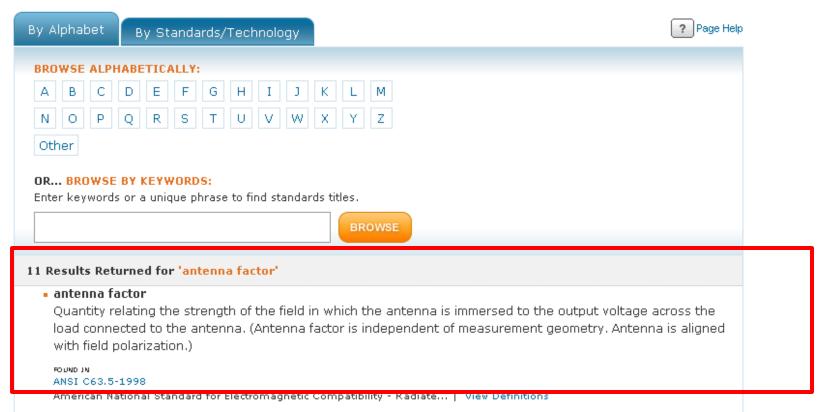
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#### antenna factor

A factor that when multiplied with the linear voltage reading of the measuring instrument yields the electric field strength in volts/meter or the magnetic field strength in amperes per meter.

#### Notes:

1. The factor includes the effects of antenna effective length and mismatch, and it may include transmission line losses.



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#### STANDARDS DICTIONARY TERMS

#### ambient level.

 The values of radiated and conducted signal and noise existing at a specific test location and time when the test sample is not activated.

#### antenna factor

 Quantity relating the strength of the field in which the antenna is immersed to the output voltage across the load connected to the antenna. (Antenna factor is independent of measurement geometry. Antenna is aligned with field polarization.)

#### free-space antenna factor

 Antenna factor when all influences from adjacent objects have been removed.

#### · ground plane

 A conducting surface or plate used as a common reference point for circuit returns and electric or signal potentials.

#### · ideal site

 A test site on which the reflective surface is flat and has infinite conductivity and size.

#### normalized site attenuation (NSA)

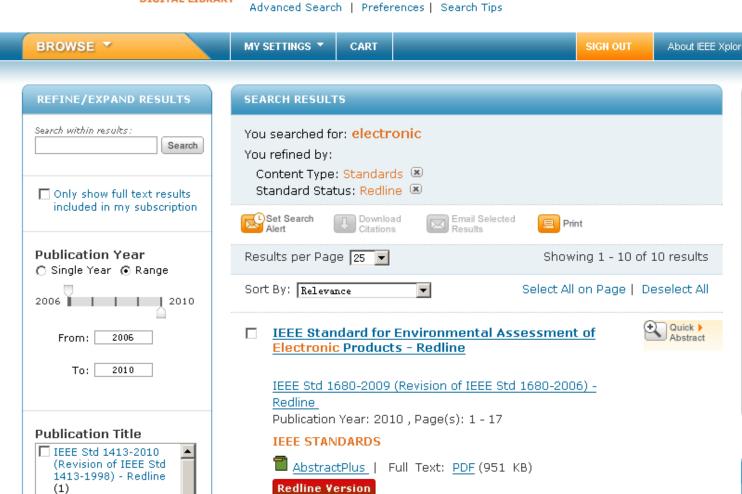
 Site attenuation divided by the antenna factors of the radiating and receiving antennas (all in linear units). ore »



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3.2.2 compatible: Paints and coatings on plastic parts are proven to be compatible with recycling processes if they do not significantly impact the physical/mechanical properties of the recycled resin. "Significant impact" is defined as >25% reduction in notched Izod impact at room temperature as

declaration by manufacturer: This is the <u>Procedure</u> by which a manufacturer declares that a product meets the environmental performance criteria by following specific steps defined by a Product Registration Entity and submitting them to a Product Registration Entity.

3.2.4 first, second, and third tier recyclers: first tier recycler is the organization that contracts with, or otherwise works directly with, the manufacturer, to receive and tear down product; second tier recycler is an organization that receives material from the first tier recycler and performs further processing, but has no direct relationship with the manufacturer; and third tier recycler is an organization that receives material from the second tier recycler and generally produces a commodity for sale and use, but has no direct relationship with the first tier recycler.

institution: A governmental, quasi-governmental, or non-governmental organization that establishes centralized agreements, which enable the entire organization and/or any of its parts to purchase electronic products.

3.2.5 homogeneous material: European Union documentation [B2] provides the following guidance for homogeneous material: homogeneous material refers to a material that can not be mechanically disjointed into different materials. Examples of "homogeneous material" are individual types of: plastics, ceramics, glass, metals, alloys, paper, board, resins, and coatings. The term "mechanically disjointed" means that the materials can, in principle, be separated by mechanical actions such as: unserewing, cutting, grinding, and abrasive processes



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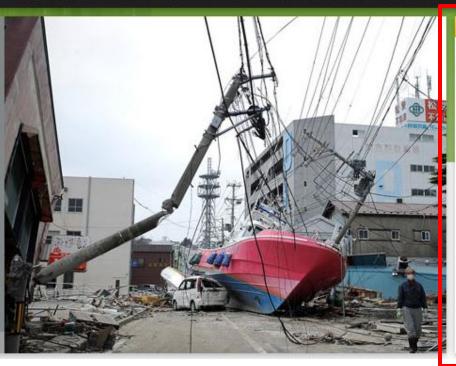
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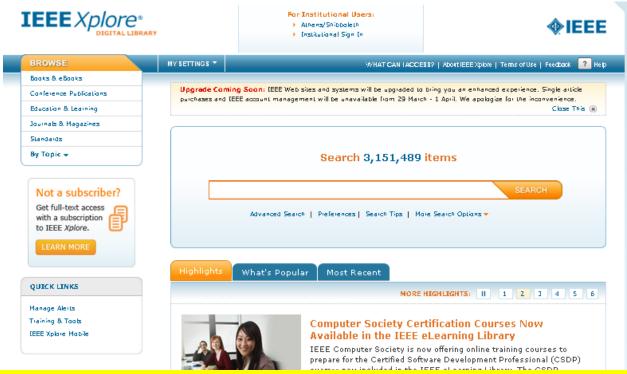
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