

# 2011

## KITIS New & Upgrade Information Seminar



키티스산학연 정보사

류 지 훈



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# Agenda

**IEEE Society**

**IEEE eLearning Library**

**IEEE-Wiley eBook Library**

**AIP/AVS Applied Physics Library**

**IEEE IBM Journal**



**IEEE**

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**AIP/AVS, IBM**



**IEL**



**IEEE eLearning Library**

**IEEE-Wiley eBook Library**

**IEEE eLearning Library**



**IEEE**

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# IEEE..



Patent

From IEEE



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57%

SONY

56%



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# IEEE



**IEL, eBook...**

**Online / Offline**



## IEEE Standard



### Management



### IEEE eLearning Library



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# 1. IEEE eLearning Library는 어떤자료?



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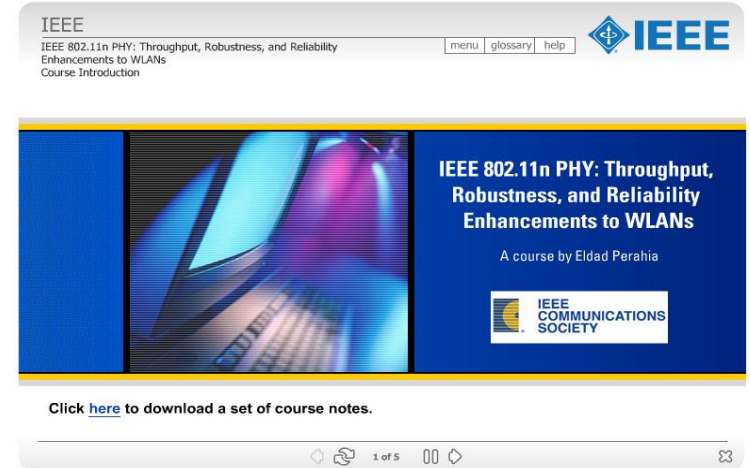


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# What is IEEE eLearning Library Now ?

- IEEE eLearning Library란?

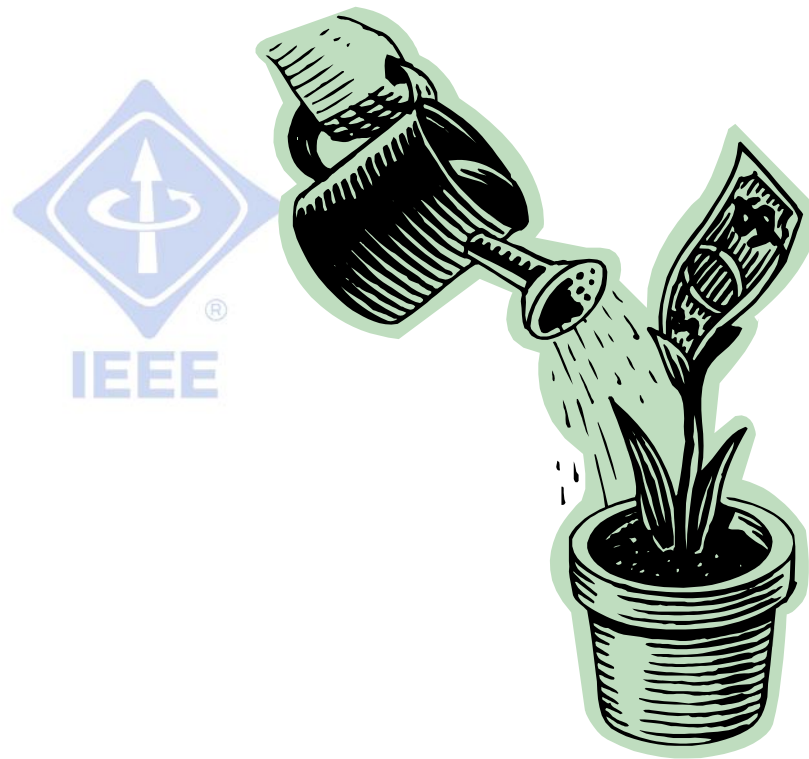
세계최고 명성의 학회인 IEEE의 Online 교육자료 입니다.



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## 2. 장점, 특징은 ?



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# IEEE eLearning Library (주요특징)

- ① IEEE만이 보유하고 있는 자료를 텍스트가 아닌 **시청각 동영상으로 교육**
- ② **오디오, 애니메이션, 그래픽, 수치 및 용어사전**을 통한 **학습 효과 최대화**
- ③ 최신의 IEEE Conference의 발표 내용을 중심으로 제작이 되기 때문에  
**신속히 변화하는 핵심기술 및 동향습득 가능**
- ④ IEEE가 엄선한 **세계 최고의 석학들로 구성된 전문가에 의한 교육**
- ⑤ 학부에서는 학기 중 **Curriculum 교재로 활용이 가능**
- ⑥ IEL(IEEE Text Information) 의 **구독효과를 배가 시킬 수 있음**



IEEE

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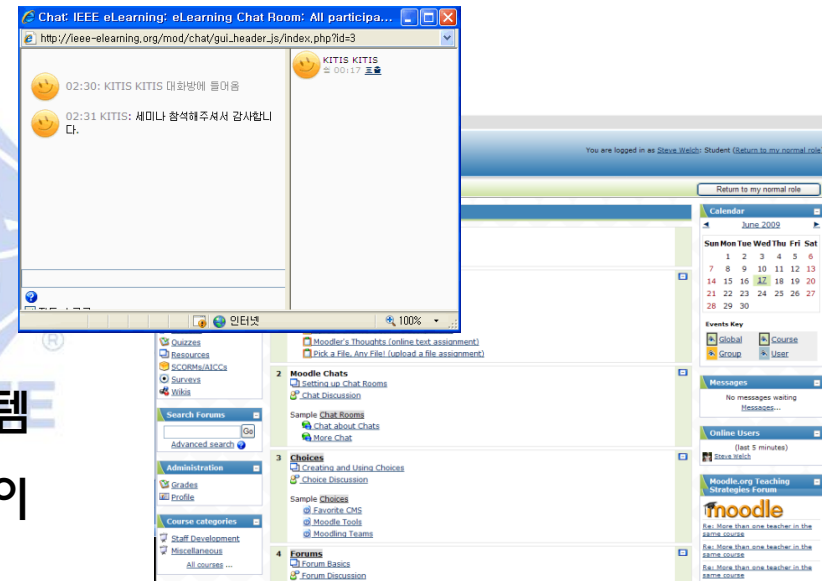


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## ■ LMS (Learning Management System)

### 온라인 학습 관리시스템 적용

- 온라인을 통한 학사관리
- 학교, 기업, 공공기관의 인력 양성 시스템
- 유저간 채팅, 간단한 포럼, 일정관리 용이



You do not have permission to add a new discussion topic for all participants.

Discussion	Started by	Group	Replies
<a href="#">Welcome to IEEE eLearning</a>	 <a href="#">Steve Welch</a>		<a href="#">13</a>
<a href="#">IEEE Region 8 eLearning Discussion</a>	 <a href="#">Steve Welch</a>		<a href="#">4</a>

- CEU (Continuing Education Units)
  - ✓ IACET(국제 평생 교육 트레이닝 협회)에서 제공하는 공인 인증 점수 CEUs(Continuing Education Units) 제공
  - ✓ ANSI에서 채택되어서 IACET guidelines 로 규격화되어 공학 엔지니어들의 교육을 위한 프로그램으로 세계적으로 그 가치를 인정 받음

IEEE



## ■ Certificate (수료증)



### 3. 구독기관에서 어떻게 활용할 수 있나요?



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# 기업

1. 직원들의 승급심사에 기본적으로 이수해야하는 교육점수

2. 연구원과 직원의 교육을 위해



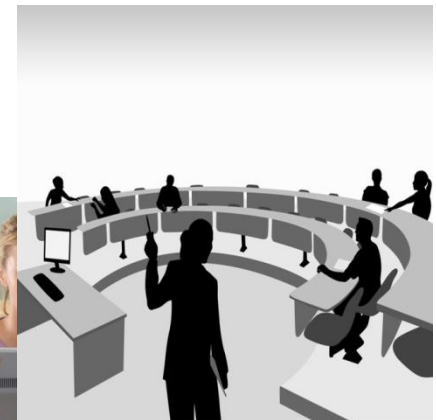
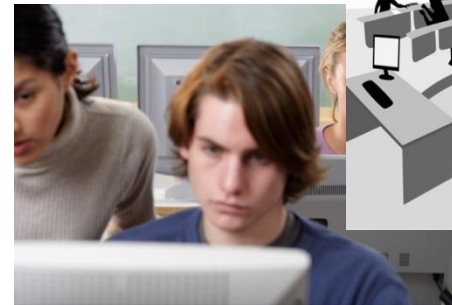
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# 대학교

1. 학교 교육의 커리큘럼으로 편성해서 사용가능

2. 계절학기 동영상수업강좌로 사용가능

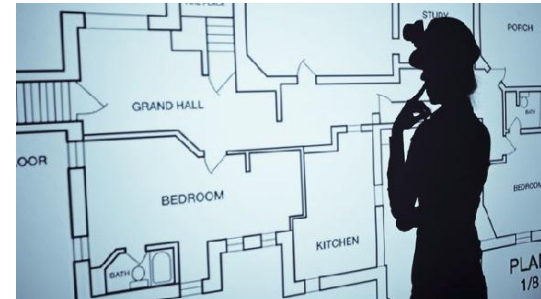


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## 4. 어떤 분야의 자료를 어느정도

수록하고 있나요?



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  - The IEEE eLearning Series on Integrated Circuits
- Computational and Artificial Intelligence
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  - Software Engineering
- Engineering Profession
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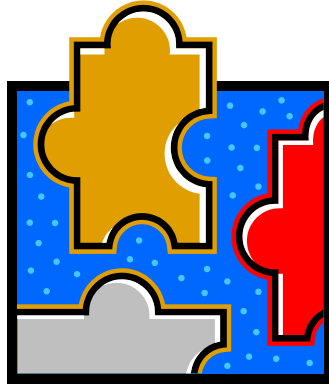


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- **Smart Grid**
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- Biometrics
- **RFID**
- Telecommunications



## 4. IET 자료와 연계해서 사용할 수 있나요?

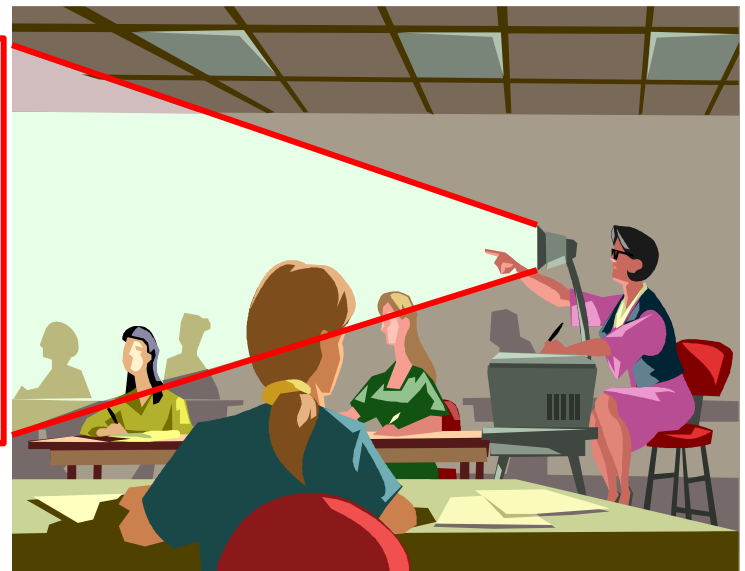
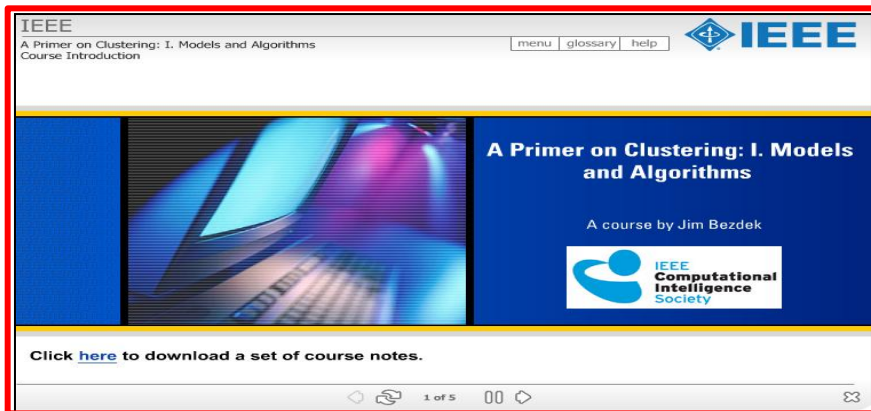


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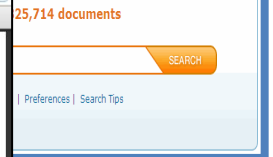
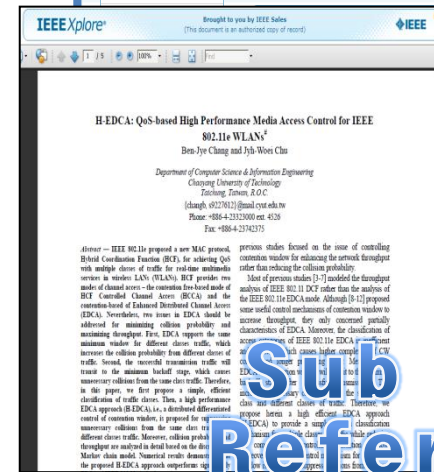
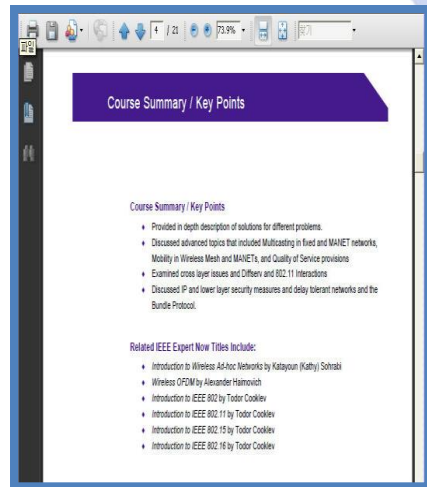
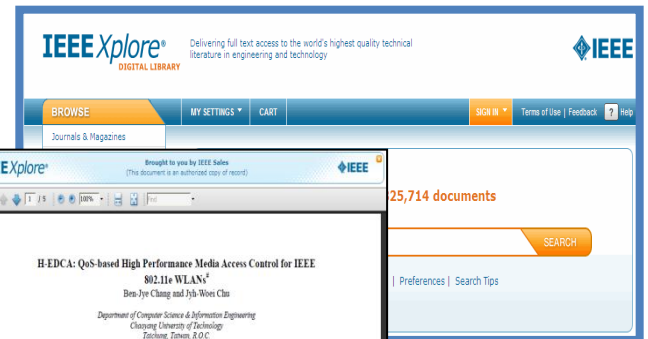


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Course note

IEL



Sub info Reference



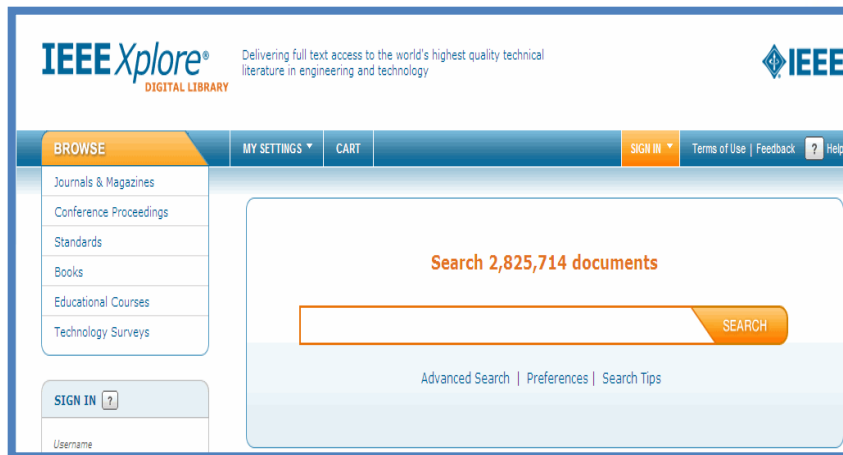
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# IEEE eLearning Library & IEL 상호연동 기능요소

## 1. IEL과 같은 Interface 사용



## 2. IEEE Conference에서 발표된 자료들



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## 3. 동일한 Conference와 연관된 주제의 자료들

IEL

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**IEEE 802.11N Physical Layer**

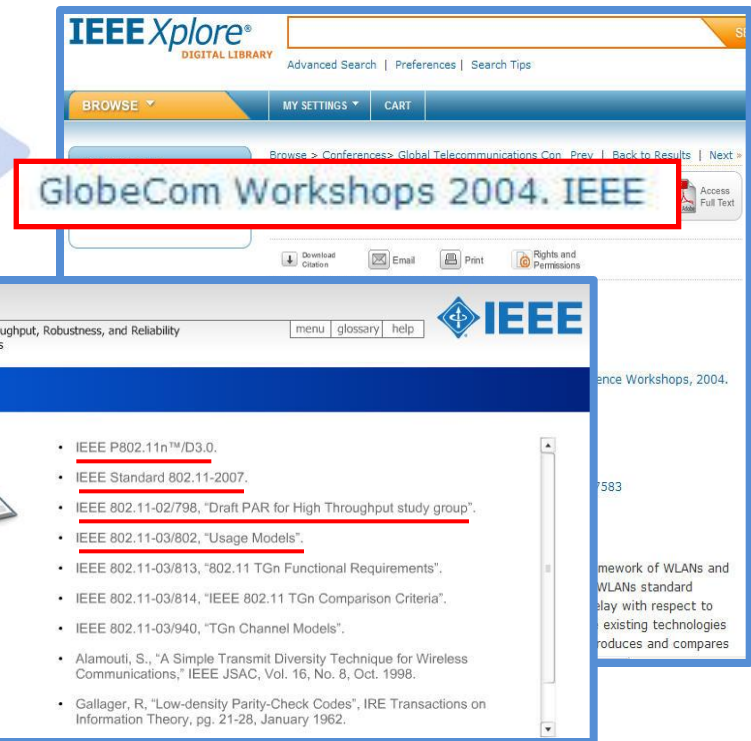
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Publ  
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**ABSTRACT**

The IEEE802.11n standard will enable a new class of consumer and enterprise products utilizing wireless LAN connectivity that is ten times faster than is feasible with the current IEEE802.11a/b/g standards. This tutorial will provide a comprehensive overview of the Physical Layer (PHY) technology in the p802.11n draft standard. The course will begin with an



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IEEE

IEEE 802.11n PHY: Throughput, Robustness, and Reliability Enhancements to WLANs Course Summary

menu glossary help

**References**

- IEEE P802.11n™/D3.0.
- IEEE Standard 802.11-2007.
- IEEE 802.11-02/798, "Draft PAR for High Throughput study group".
- IEEE 802.11-03/802, "Usage Models".
- IEEE 802.11-03/813, "802.11 TGN Functional Requirements".
- IEEE 802.11-03/814, "IEEE 802.11 TGN Comparison Criteria".
- IEEE 802.11-03/940, "TGN Channel Models".
- Alamouti, S., "A Simple Transmit Diversity Technique for Wireless Communications," IEEE JSAC, Vol. 16, No. 8, Oct. 1998.
- Gallager, R., "Low-density Parity-Check Codes", IRE Transactions on Information Theory, pg. 21-28, January 1962.

## 5. Update는 어느 정도 되나요?

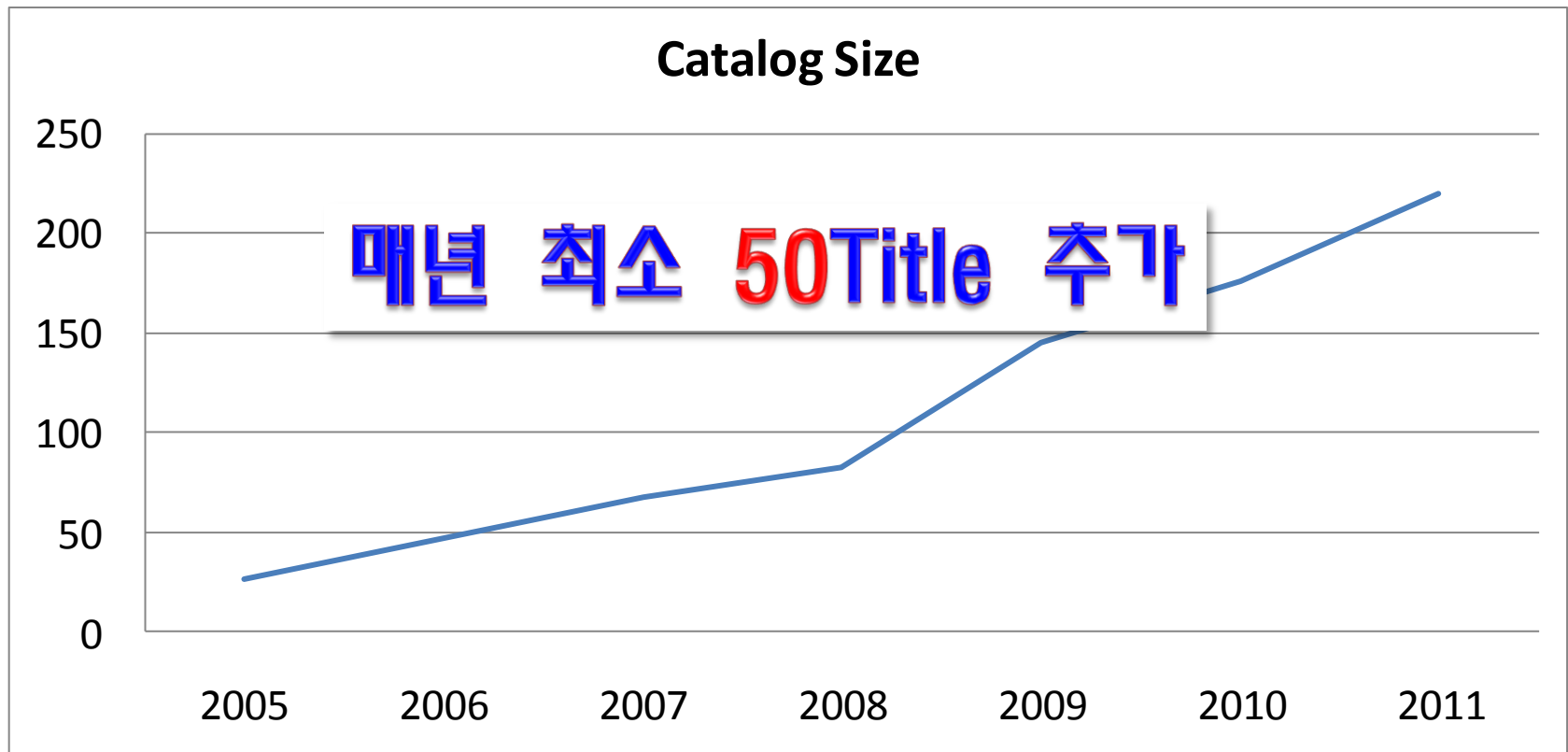


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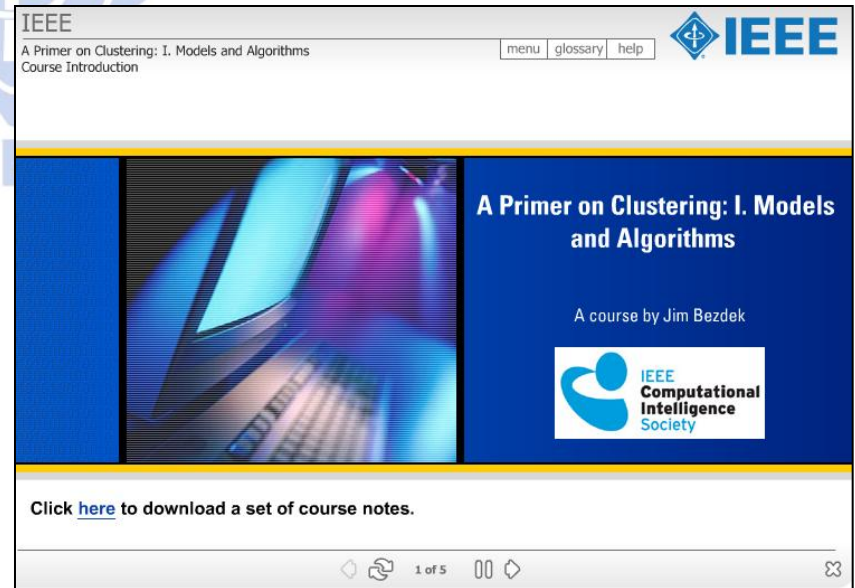


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## 6. IEEE eLearning Library 자료의

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by Bezdek, James C.

▶ **A Software Design**  
by Berndt, Don

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Bioengineering	Geoscience
Communication, Networking & Broadcasting	Nuclear Engineering
Components, Circuits, Devices & Systems	Photonics & Electro-Optics
Computing & Processing (Hardware/Software)	Power, Energy, & Industry Applications
Engineered Materials, Dielectrics & Plasmas	Robotics & Control Systems
Engineering Profession	Signal Processing & Analysis
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Engineering Profession

Fields, Waves & Electromagnetics

30 Results Returned in **Communication, Networking & Broadcasting**

▶ **Advanced Protocols for Wireless Ad-hoc Networks**  
by Sohrabi, Kathy

▶ **Applications of Neural Networks for RF Design**  
by Zhang, Q.J. Gupta, K.C.

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### ON THIS PAGE

Abstract

Subject Areas

Keywords

Browse > Educational Courses > Advanced Protocols for Wireless Ad-hoc Networks

## Advanced Protocols for Wireless Ad-hoc Networks

Access Course

Email

Print

Sohrabi, Kathy

**Sponsored by :** IEEE Vehicular Technology Society

**Presented at :** Vehicular Technology Conference (VTC)

**ISBN :** 0-7803-9656-1

**Publication Date :** Feb-2006

**Run Time :** 1:00:00

### ABSTRACT

This is a 2-part course. The Advanced Protocols for Wireless Ad-hoc Networks will illustrate that in Ad-Hoc networks where there is no underlying fixed infrastructure, tasks such as network self-organization, mobility management, adaptive route detection for unicast and multicast applications, and provisioning of Gateway functionality to interconnect the ad-hoc network to the rest of the Internet space must be handled according to rules



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## Advanced Protocols for Wireless Ad-hoc Networks



Access  
Course

# Result

Email Print

Sohrabi, Kathy

Sponsored by : IEEE Vehicular Technology Society

Presented at : Vehicular Technology Conference (VTC)

ISBN : 0-7803-9656-1

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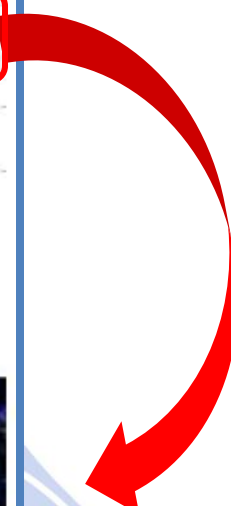


### EDUCATIONAL COURSE SUBJECT AREAS

Communication, Networking & Broadcasting


### KEYWORDS

802.11 Access Point Core Based Tree routing Delay Tolerant Networking Denial of Service Differentiated Services DiffServ Distance Vector Multicast Routing Protocol algorithm Extensible Authentication Protocol Internet Group Management Protocol Integrated Services IPSecurity Intercept Multicast



### Advanced Protocols for Wireless Ad-Hoc Networks

An Expert Now IEEE course  
by Kathy Sohrabi



Sponsored by the IEEE Vehicular Technology Society

Click [here](#) to download a set of course notes. Click [here](#) for a navigation tutorial.

MAP INTRODUCTION BANDWIDTH BACK PAUSE AGAIN PLAY



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# Introductory

The image shows a web-based course interface. A large red arrow on the left points from the bottom navigation bar up to the 'course map' window. Another red arrow on the right points from the bottom navigation bar up to the 'Course Transcript' window. The interface includes a 'course map' window, a 'Course Summary / Key Points' window, and a 'Course Transcript' window. The 'course map' window lists the course structure, and the 'Course Transcript' window displays the text of the 'World View for Wireless Ad-Hoc Networks and the Internet' section. The bottom navigation bar contains a 'MAP' button, a progress bar, and playback controls.

**course map**

Key: Learning Object Content Page Hands-On Lab

**ADVANCED PROTOCOLS FOR WIRELESS AD-HOC NETWORKS**

- Introduction
- Advanced Protocols for Wireless Ad-Hoc Networks
  - World View for Wireless Ad-Hoc Networks and The Internet
  - Motivation
  - Motivation ... continued
  - Multicast Routing
    - Multicast Routing - Intro
    - IGMP - Internet Group Management Protocol
    - Multicast Group Structures - Trees
    - Multicast Routing - Delivery Structure Setup
    - Fixed Internet - Multicast Forwarding
    - MANET Multicast Routing
    - MAODV - Group Membership via the Group Leader

**Course Summary / Key Points**

- Provided in depth description of solutions for different problems.
- Discuss Mobility
- Examine
- Discuss Bundle P

**Course Transcript**

**World View for Wireless Ad-Hoc Networks and the Internet**

In an earlier introductory tutorial we discussed the operation of standalone, MANET, and wireless MESH networks. The mobile Ad-hoc networks and MESH networks in particular are typically deployed in scenarios that require internetworking with the larger Internet. This diagram depicts a typical topology for such deployments. In this tutorial, we will investigate the operation of such networks and some of the protocols needed to allow interoperability between the wireless and wire-line paradigms such that we will receive good performance from the system.

**Motivation**

Ad-hoc networks generally do not operate in stand alone mode. We usually have one or more MANETs or Meshclouds interact with each other and with wired infrastructure. For this reason we need to support interoperability between different routing algorithms. We also need to determine how to make MANET unicast and multicast more scalable. In addition we need to support subnetting and addressing and also provide gateway functionality. Managing host mobility across network boundaries is also an issue that needs to be supported. Also some applications require group interaction. Examples include voice and other applications that provide situational awareness. For this reason we need to support multicast routing. We need to support multicast routing over different fixed and wireless domains. Quality of Service guarantees for various applications also needs to be supported. Internet Quality of Service and interaction with wireless specific solutions should be discussed.

Click [here](#) to download a set of course notes.

Click [here](#) for a navigation tutorial.

**MAP** **INTRODUCTION** **BANDWIDTH** **BACK** **PAUSE** **AGAIN** **PLAY**



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# Introductory

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A Primer on Clustering: I. Models and Algorithms  
Course Introduction

[menu](#) [glossary](#) [help](#)



## Jim Bezdek

Professor

Jim received the BS in Civil Engineering from U. of Nevada (Reno, 1969); and the PhD in Applied Mathematics Cornell University, 1973. Jim's interests include woodworking, optimization, motorcycles, pattern recognition, fine cigars, fishing, image processing, computational neural networks, blues music, and clustering in very large data sets. Jim is past president of NAFIPS, IFSA and the IEEE NNC (aka CIS), is the founding editor of the Int'l. Jo. Approximate Reasoning and the IEEE Transactions on Fuzzy Systems, is a fellow of the IEEE and IFSA, and is a recipient of the IEEE 3rd Millennium, IEEE Fuzzy Systems Pioneer and IEEE Frank Rosenblatt medals.



2 of 5



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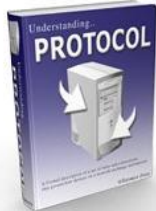


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# Lecture

## Multicast Routing - Delivery Structure Setup



- Distance Vector Multicast Routing Protocol
  - Distance Vector algorithm
  - Source based multicast trees
  - Efficient for dense topologies

### • MOSPF

- Link
- Build
- Using
- receive
- Source

## Fixed Internet - Multicast Forwarding



- The process of forwarding the multicast traffic over the multicast tree in the right direction
- The Router, which has multiple interfaces, must determine where the multicast routed packet must go based on the interfaces over which it arrives



- Reverse
- 
- 

## Security at Different Layers



### • Physical Layer

- Secure waveforms
- LPI/LPD
- Anti Jamming

### • Link Layer

- Link by link encryption (as opposed to end to end security)
- Authentication and association with the local network's MAC/Link
  - 802.11 examples

### • Network Layer

- Securing MANET Routing

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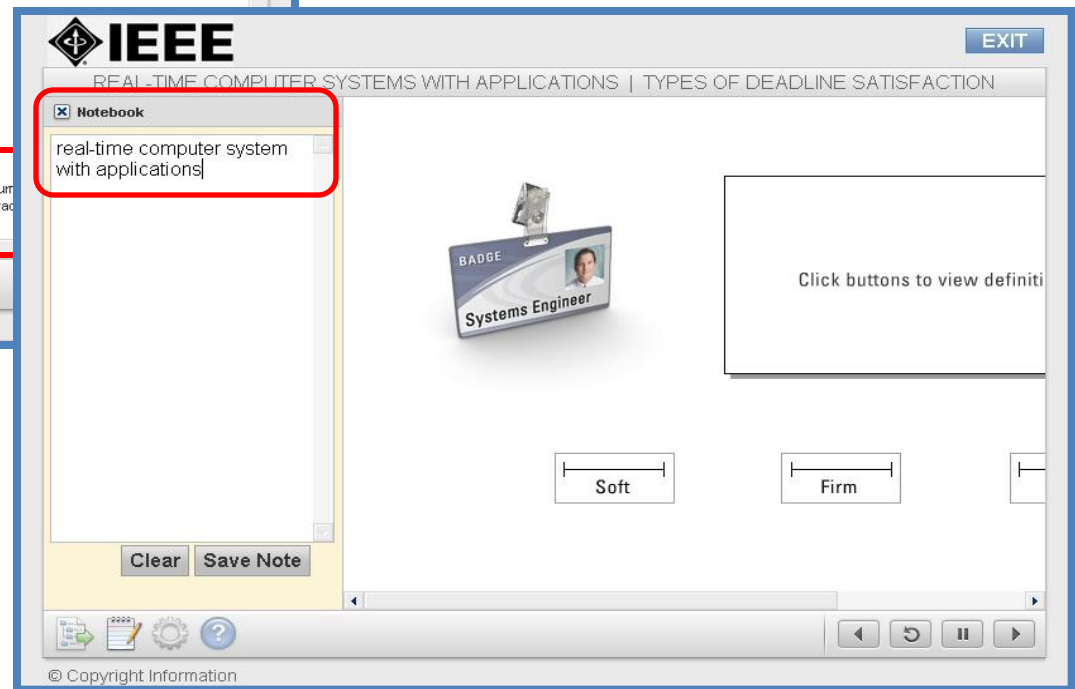
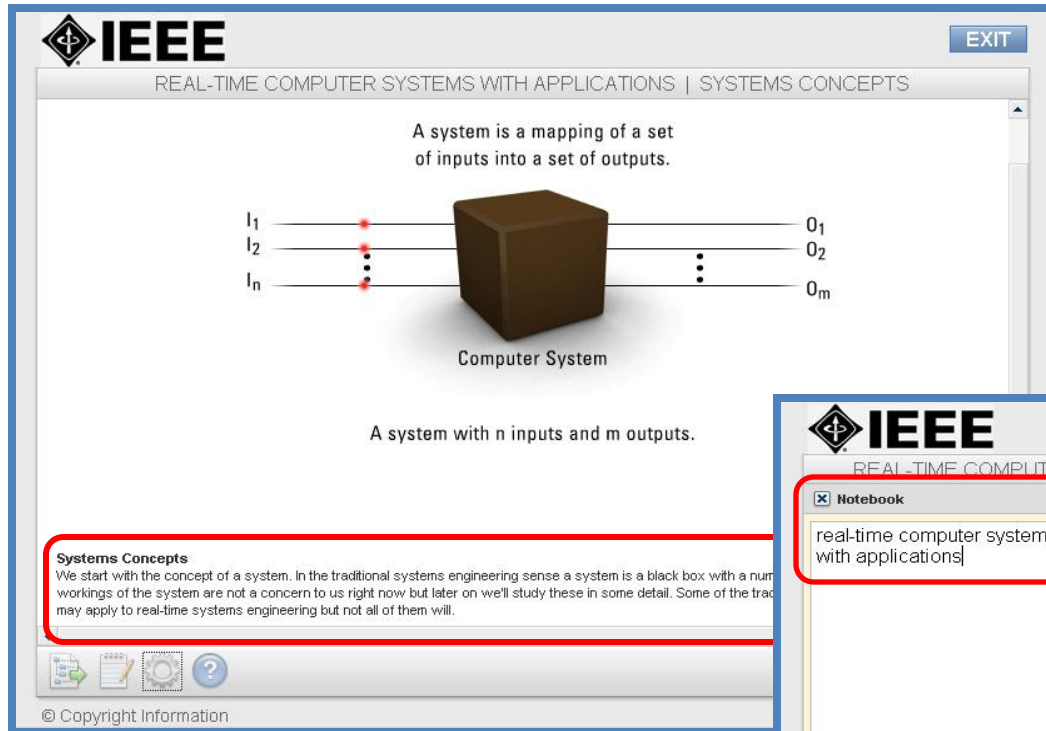
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# Lecture

## Notebook



Text caption



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# Glossary & Reference

## Glossary

AP	MOSPF
CBT	NAT
DiffServ	ODMRP
DoS	PIM
DTN	<b>PUMA</b>
DVMRP	QoS
EAP	RADIUS
IGMP	SSID
IntServ	SSL
IPSec	STA
LPI/LPD	WEP
MAODV	WPA
MobileIP	

**PUMA:** Protocol for Unified Multicast through Announcements

Click each term to view

## Resources



### Multicast Routing

[1] Xiang Chen and Jie Wu, "Multicasting Techniques in Mobile Ad Hoc Networks", in *The Handbook of Ad Hoc Wireless Networks*, CRC Press, Inc., pp 25-40, 2003, ISBN: 0-8493-1332-5.

[2] Wikipedia list for multicast routing:  
[http://en.wikipedia.org/wiki/Ad\\_hoc\\_protocol\\_list#Multicast](http://en.wikipedia.org/wiki/Ad_hoc_protocol_list#Multicast)

### Mobility Management

[3] Charles E. Perkins, "Mobile Networking Through Mobile IP", *IEEE Internet Computing Magazine*, Volume 2, January 1998, pp. 58-69.

[4] A.C. Snoeren and H. Balakrishnan, "An End-to-End Approach to Host Mobility," in *Proc. MOBIKOM*, Boston, MAC 2000, pp. 155-166.

[5] F. Vakil et al., "Supporting Mobility for TCP with SIP", *IETF Draft*, work in progress.

[6] T. Kwon et al., "Mobility Management for VoIP Service: Mobile IP vs. SIP," *IEEE*



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# Post-Test

## Question 1 of 10:

Which 802.11 standard is concerned with QoS issues? What is the main method of implementation of QoS?

A. ☐ 802.11h provides QoS provisions.

## Question 3 of 10:

True or False: Mobile IP has four major components: It provides a static home address to a node that identifies a host permanently. There is also a care of address. This is a variable address, and changes as the host moves from network to network. Mobile IP's home agent is responsible for redirecting the packets destined for the mobile node to its new location. A foreign agent in the far away network manages registration of the node.

A. ☐ True

B. ☐ False

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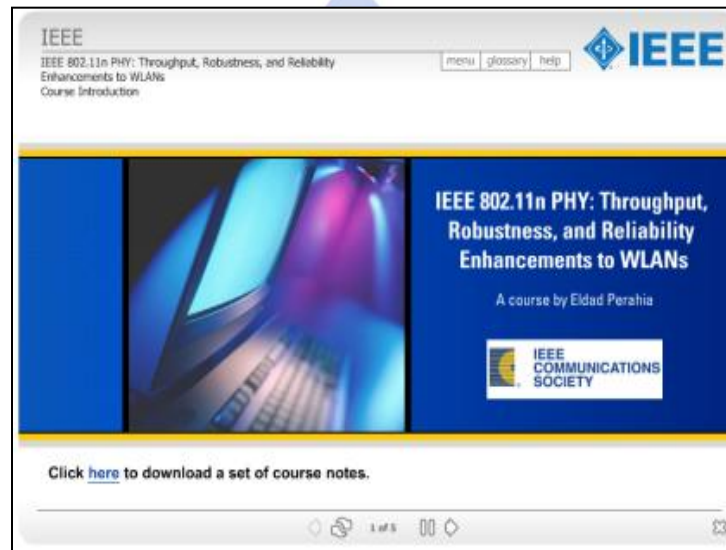


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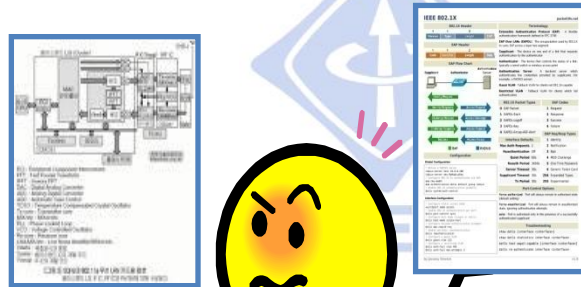


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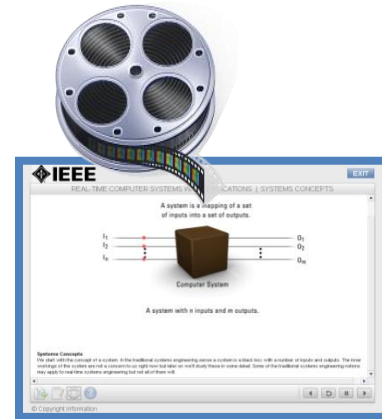
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# 오늘의 단어

EDGE [ed3] : 1. (가운데에서 가장 먼) 끝, 가장자리, 모서리  
2. (칼 등의) 날  
3. 위기

활 용 예 문



동의어 :  간지[かんじ] 난다 : 느낌이 있다. 감각이 있다.

Cutting-edge : 1. 최첨단 2. 활력소



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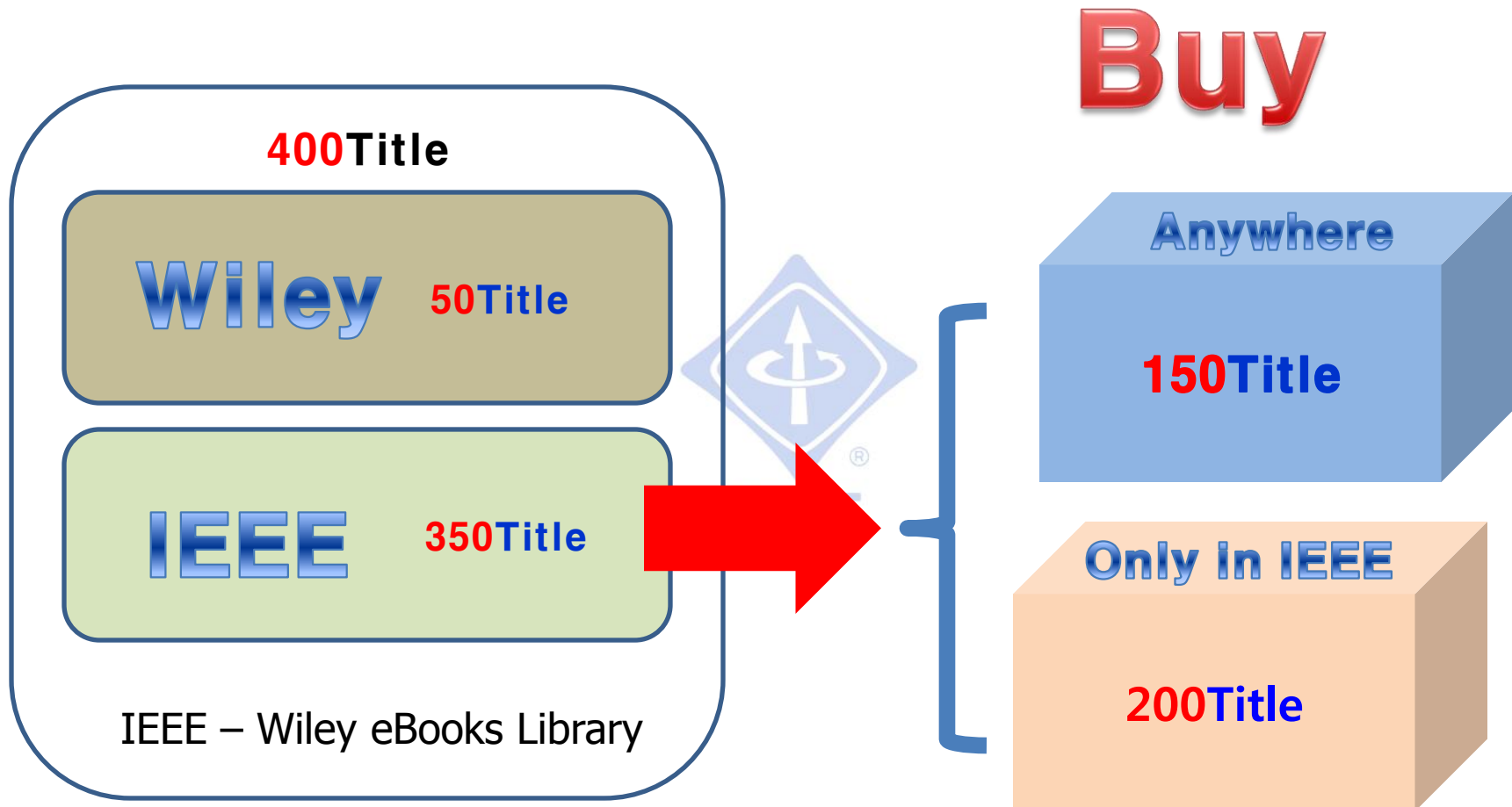


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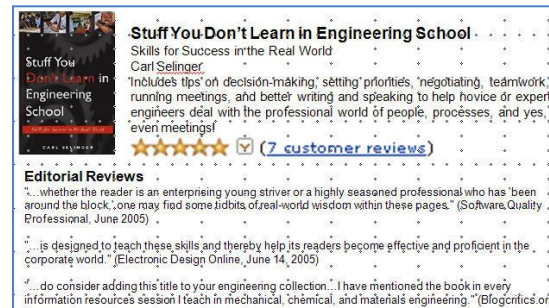
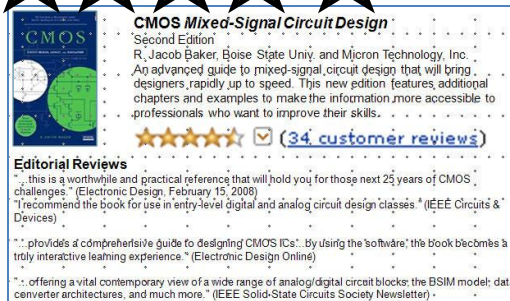


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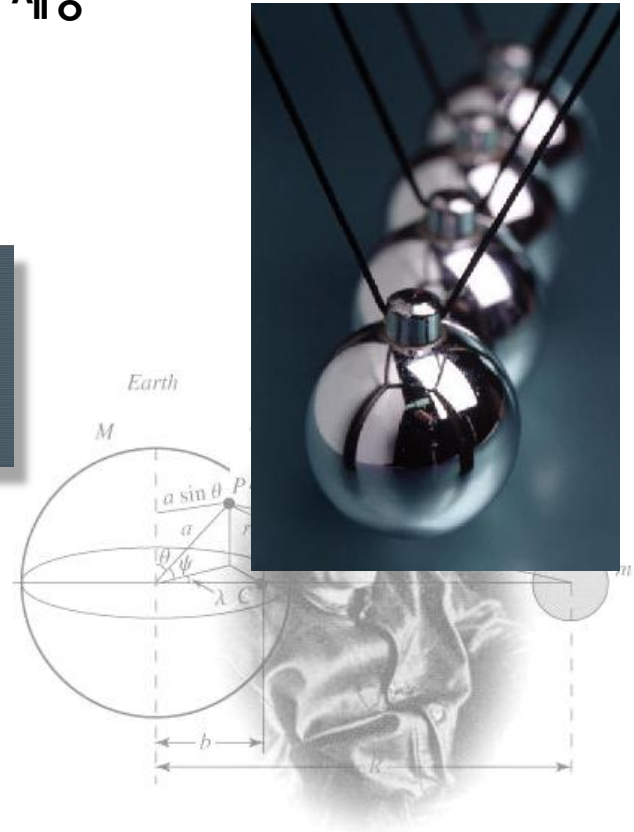
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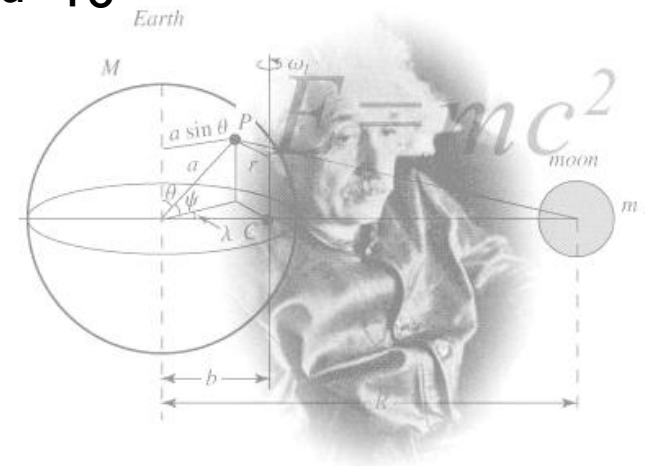
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