

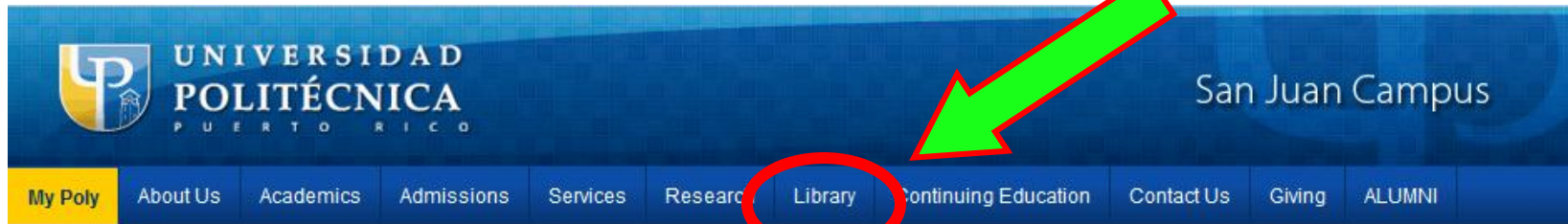
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A promotional banner for the Polytechnic University Alumni Association. On the left, a circular graphic says 'FREE GIFT' and 'Join Us!'. The center features the university logo and the text 'POLYTECHNIC UNIVERSITY ALUMNI ASSOCIATION'. On the right, text reads: 'DON'T MISS YOUR CHANCE TO WIN! JOIN US NOW AND RECEIVE A SPECIAL GIFT FROM YOUR BELOVED ALMA MATER. 50% of the membership fee will go directly to our PolyFund for scholarships and resources. Please visit our webpage www.pupr.edu/alumni for more information and the full list of benefits for alumni members.'

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[ASME DIGITAL LIBRARY](#)

Revistas académicas de Ingeniería Mecánica. La suscripción es solamente para los Transaction Journals, (total 24 journals) pero hay algunos ebooks y proceedings que están open source que se pueden ver.

User ID: pupr
Password: asme2012

[BUILDING GREEN](#)

Base de datos orientada al desarrollo sostenible. Incluye acceso completo a noticias, estudios de casos, especificaciones de construcción, productos y al *Environmental Building News*, desde 1992 hasta el presente. Además incluye las guías para la certificación LEED (The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™).

- You can see additional user ID and passwords to use if asked for (in red letters), for each database

DATABASES ARE DIFFERENT

- You can start your search
- Your search method, results and tools will depend on the database used.

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Following are instructions for some individual Databases:

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- See the tutorials for details on how to use the EBSCO host databases.

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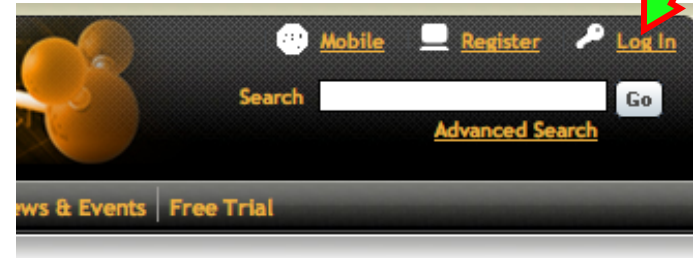
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CRCNETBASE



- You can browse the content or make search by keyword or phrases and advanced search.

Browse Content

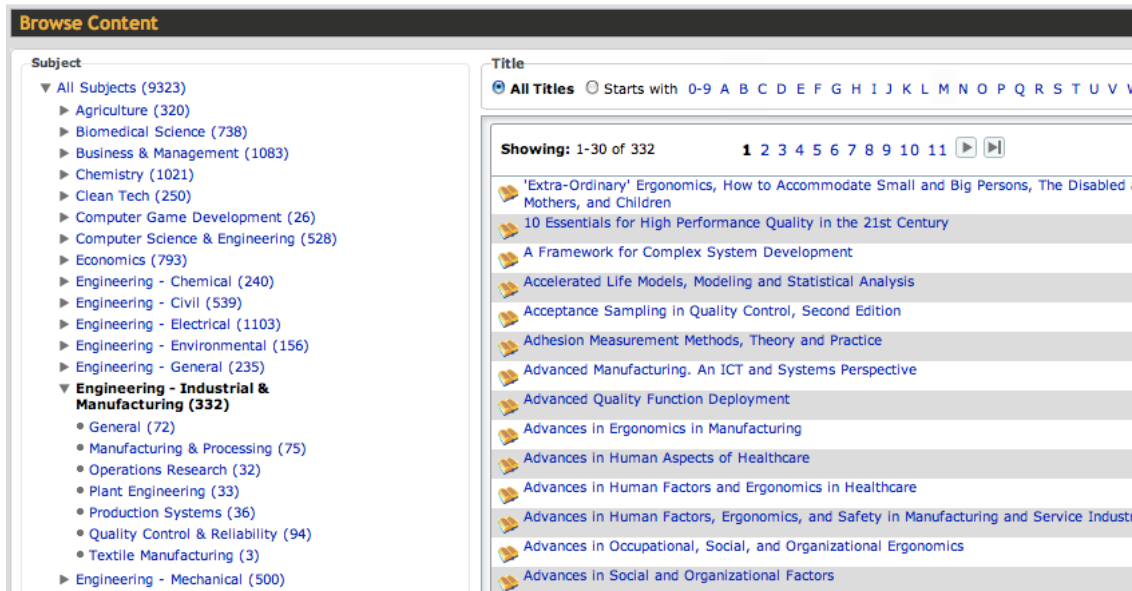
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- When you browse you can see themes and sub-themes



Browse Content

Subject

- ▼ All Subjects (9323)
 - ▶ Agriculture (320)
 - ▶ Biomedical Science (738)
 - ▶ Business & Management (1083)
 - ▶ Chemistry (1021)
 - ▶ Clean Tech (250)
 - ▶ Computer Game Development (26)
 - ▶ Computer Science & Engineering (528)
 - ▶ Economics (793)
 - ▶ Engineering - Chemical (240)
 - ▶ Engineering - Civil (539)
 - ▶ Engineering - Electrical (1103)
 - ▶ Engineering - Environmental (156)
 - ▶ Engineering - General (235)
 - ▼ **Engineering - Industrial & Manufacturing (332)**
 - General (72)
 - Manufacturing & Processing (75)
 - Operations Research (32)
 - Plant Engineering (33)
 - Production Systems (36)
 - Quality Control & Reliability (94)
 - Textile Manufacturing (3)
 - ▶ Engineering - Mechanical (500)

Title

All Titles Starts with 0-9 A B C D E F G H I J K L M N O P Q R S T U V W

Showing: 1-30 of 332 1 2 3 4 5 6 7 8 9 10 11

- ▶ 'Extra-Ordinary' Ergonomics, How to Accommodate Small and Big Persons, The Disabled Mothers, and Children
- ▶ 10 Essentials for High Performance Quality in the 21st Century
- ▶ A Framework for Complex System Development
- ▶ Accelerated Life Models, Modeling and Statistical Analysis
- ▶ Acceptance Sampling in Quality Control, Second Edition
- ▶ Adhesion Measurement Methods, Theory and Practice
- ▶ Advanced Manufacturing. An ICT and Systems Perspective
- ▶ Advanced Quality Function Deployment
- ▶ Advances in Ergonomics in Manufacturing
- ▶ Advances in Human Aspects of Healthcare
- ▶ Advances in Human Factors and Ergonomics in Healthcare
- ▶ Advances in Human Factors, Ergonomics, and Safety in Manufacturing and Service Industries
- ▶ Advances in Occupational, Social, and Organizational Ergonomics
- ▶ Advances in Social and Organizational Factors

- On the right side you see the books of the theme selected

CRCNETBASE



- When you search by keyword or phrase the results are book chapters and sometimes books.

The screenshot displays the CRCnetBASE Advanced Search interface. The top navigation bar includes links for Home, Browse Content, Advanced Search, About CRCnetBASE, Subject Collections, How to Subscribe, Librarian Resources, News & Events, and Free Trial. The search bar contains the text 'Just in Time' and a 'Go' button. Below the search bar, the 'Advanced Search' section is active, showing search criteria and results.

Search Criteria

- Full text: Just in Time#
- Book/Chapter Title: [Empty]
- Author (by Chapter): [Empty]
- ISBN/DOI: [Empty]

Publication Dates

Between: Year [] and Year []

Subjects (by Chapter)

- Agriculture
- Biomedical Science
- Business & Management
- Chemistry
- Clean Tech
- Computer Game Development
- Computer Science & Engineering
- Economics
- Engineering - Chemical
- Forensics & Criminal Justice
- Geoscience
- Healthcare
- Homeland Security
- Information Technology
- Life Science
- Material Science
- Math
- Medicine
- Nanoscience & Technology

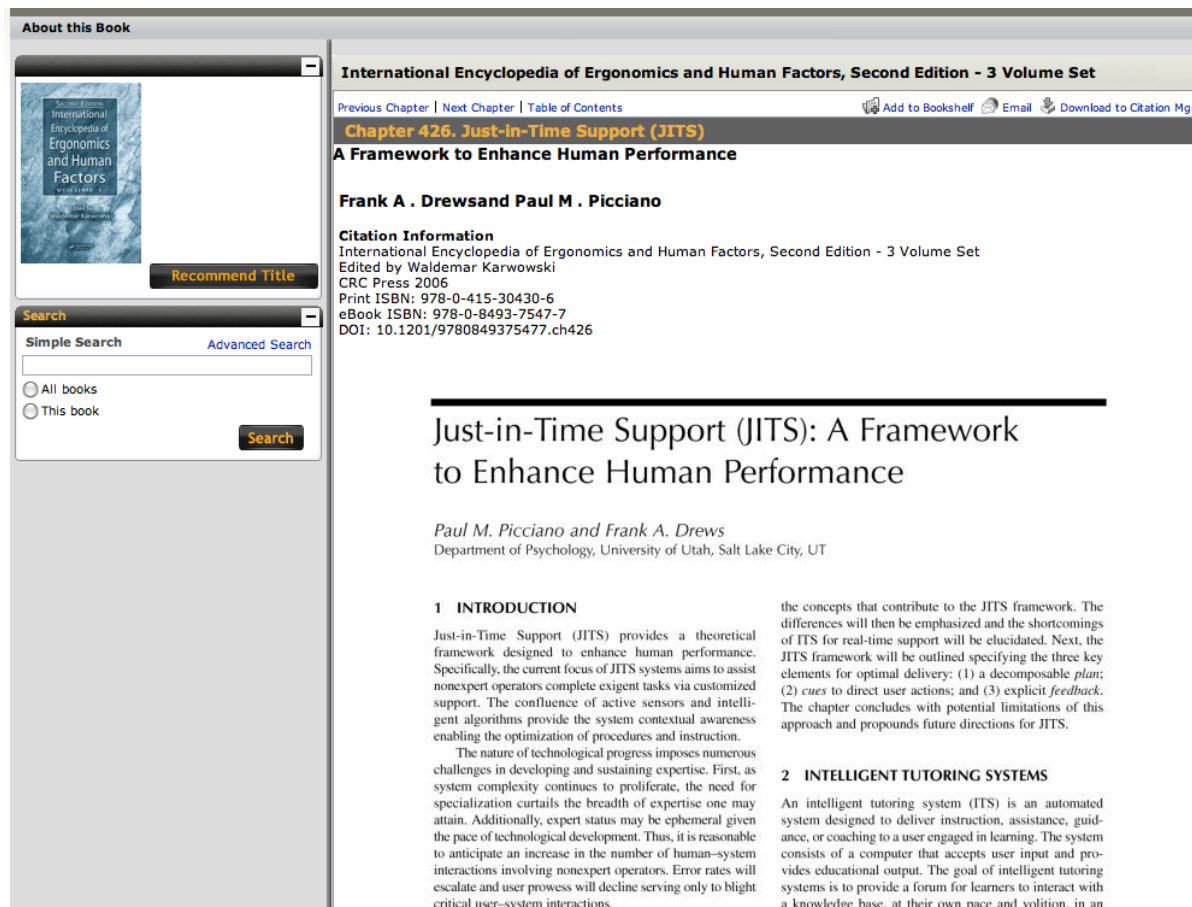
Search Results

Showing: 1-20 of 39880
Search Query: **Full Text:** Just in Time

Select All Results

- Chapter 426. Just-in-Time Support (JITS)**
Frank A. Drews, Paul M. Picciano
International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set
Abstract Hi-Res PDF (251 KB) PDF w/links (252 KB)
- Chapter 154. Just in time mixture proportioning**
Ken W. Day
Tailor Made Concrete Structures
New Solutions for our Society (Abstracts Book 314 pages + CD-ROM full papers 1196 pages)
Pages 198-199
Abstract Hi-Res PDF (66 KB) PDF w/links (67 KB)
- Chapter 8. Interactive Video Browsing of H.264 Content Based on Just-in-**

- You can read the book chapter
- Also there are some options to save, print or e-mail the information retrieved.



The screenshot displays the CRCnetBASE interface for a book chapter. On the left, there is a sidebar with a book cover for 'International Encyclopedia of Ergonomics and Human Factors, Volume 2' and a search box with options for 'All books' and 'This book'. The main content area shows the chapter title 'Chapter 426. Just-in-Time Support (JITS): A Framework to Enhance Human Performance' by Frank A. Drews and Paul M. Picciano. Below the title is a section for 'Just-in-Time Support (JITS): A Framework to Enhance Human Performance' by Paul M. Picciano and Frank A. Drews, including an introduction and a section on intelligent tutoring systems.

About this Book

International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set

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Chapter 426. Just-in-Time Support (JITS)
A Framework to Enhance Human Performance

Frank A. Drews and Paul M. Picciano

Citation Information
International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set
Edited by Waldemar Karwowski
CRC Press 2006
Print ISBN: 978-0-415-30430-6
eBook ISBN: 978-0-8493-7547-7
DOI: 10.1201/9780849375477.ch426

Just-in-Time Support (JITS): A Framework to Enhance Human Performance

Paul M. Picciano and Frank A. Drews
Department of Psychology, University of Utah, Salt Lake City, UT

1 INTRODUCTION

Just-in-Time Support (JITS) provides a theoretical framework designed to enhance human performance. Specifically, the current focus of JITS systems aims to assist nonexpert operators complete exigent tasks via customized support. The confluence of active sensors and intelligent algorithms provide the system contextual awareness enabling the optimization of procedures and instruction.

The nature of technological progress imposes numerous challenges in developing and sustaining expertise. First, as system complexity continues to proliferate, the need for specialization curtails the breadth of expertise one may attain. Additionally, expert status may be ephemeral given the pace of technological development. Thus, it is reasonable to anticipate an increase in the number of human-system interactions involving nonexpert operators. Error rates will escalate and user prowess will decline serving only to blight critical user-system interactions.


the concepts that contribute to the JITS framework. The differences will then be emphasized and the shortcomings of ITS for real-time support will be elucidated. Next, the JITS framework will be outlined specifying the three key elements for optimal delivery: (1) a decomposable *plan*; (2) *cues* to direct user actions; and (3) explicit *feedback*. The chapter concludes with potential limitations of this approach and propounds future directions for JITS.

2 INTELLIGENT TUTORING SYSTEMS

An intelligent tutoring system (ITS) is an automated system designed to deliver instruction, assistance, guidance, or coaching to a user engaged in learning. The system consists of a computer that accepts user input and provides educational output. The goal of intelligent tutoring systems is to provide a forum for learners to interact with a knowledge base, at their own pace and volition, in an

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Featured Content

- You can search by browsing subjects or by keyword or phrase.

The screenshot shows the McGraw-Hill Access Engineering website. A search bar at the top contains the text "Search Access Engineering" and a "GO" button. Below the search bar is a "Browse Subjects" section with a grid of subject categories and a "Tools & Media" section with a list of resources. A "Featured Content" sidebar on the right highlights a book titled "ROARK'S FORMULAS FOR STRESS AND STRAIN" and includes sections for "Instructive Videos" and "Interactive Graphs".

Annotations on the left side of the screenshot:

- A box labeled "keyword or phrase." has a red arrow pointing to the search bar.
- A box labeled "browsing subjects" has two red arrows: one pointing to the "Browse Subjects" header and another pointing to the list of subject categories.

keyword or phrase.

browsing subjects

Search Access Engineering GO

Advanced Search

Browse Subjects

- ▶ Biomedical
- ▶ Chemical
- ▶ Civil
- ▶ Communications
- ▶ Electrical/Electronics
- ▶ Energy/Petroleum
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- ▶ Industrial
- ▶ Mechanical
- ▶ Operations Management
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Tools & Media

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Source: Engineer Online	Source: Engineer Online	
Date: 20/11/2012 01:05:00	Date: 20/11/2012 01:05:00	

Featured Content

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Now Available!

Instructive Videos

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Interactive Graphs

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- These are results after browsing for the subject “Industrial Engineering”

Home > Subjects

Industrial Engineering

	Maynard's Industrial Engineering Handbook (5 th Edition) Contents		Manufacturing Engineering Handbook Contents		Sensors and Control Systems in Manufacturing (2 nd Edition) Contents
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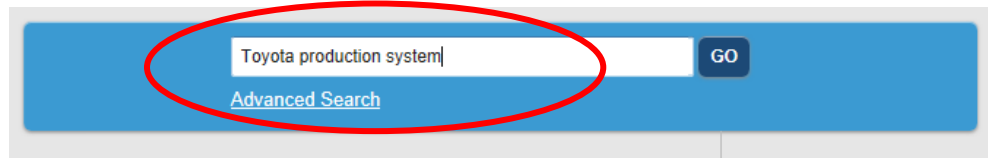
Tools & Media

- ▶ [Videos](#)

Books

- ▶ [Automation of Wastewater Treatment Facilities - WEF Manual of Practice 21, Third Edition](#)
- ▶ [Design for Environment: A Guide to Sustainable Product Development, Second Edition](#)
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- ▶ [Facility Design and Management Handbook](#)
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- ▶ [Industrial Refrigeration Handbook](#)
- ▶ [Maintenance Engineering Handbook, Seventh Edition](#)
- ▶ [Maintenance Planning and Scheduling Handbook, Second Edition](#)
- ▶ [Manufacturing Engineering Handbook](#)

- These are results for phrase “Toyota production system”



A screenshot of a search results page. On the left side, there is a 'Narrow your search' section with a 'Filter by Subject' heading. Below this, there is a list of subject categories with counts, such as 'Bio engineering (368)', 'Chemical engineering (809)', 'Civil engineering (1180)', and 'Communications engineering (491)'. The main content area on the right has a 'Home' link at the top left and a 'Save this search' button at the top right. The heading 'Search Results' is circled in red. Below the heading, it says 'Your search for Toyota production system returned 10,072 results', which is also circled in red. The first search result is titled 'Lean Manufacturing and the Toyota Production System' and includes a short text snippet and a source link. The second result is titled 'The Toyota Production System and Its Culture' and also includes a short text snippet and a source link. A third result is partially visible at the bottom: 'What Did Ohno Say about the Toyota Production System?'.

- You can read the book, print or e-mail and share.
- You can also search within the title.

The screenshot shows the McGraw-Hill AccessEngineering website interface. At the top, there are navigation links for 'ABOUT US', 'HELP', 'ADMIN RESOURCES', and 'CONTACT US', along with social media icons and a user count. Below this, the text 'Your access provided by UNIVERSIDAD POLITECNICA DE PUERTO RICO' and 'Your IP address is: 69.79.111.2' is displayed. The main header features the 'ACCESS Engineering from McGraw-Hill' logo and the tagline 'Authoritative content. Immediate solutions.' A search bar is prominently displayed, containing the text 'Toyota production system' and a 'GO' button, which is circled in red. Below the search bar are links for 'Advanced Search' and a checkbox for 'Search within this title'. A navigation menu includes 'HOME', 'SUBJECTS', 'TITLES (A-Z)', and 'CURRICULUM MAPS', along with a 'SIGN OUT' button. The main content area shows the search results for 'Lean Manufacturing and the Toyota Production System'. On the left, there is a 'Source' section with a book cover image and the title 'How To Implement Lean Manufacturing'. Below this is a 'Page Contents' section with a list of links: 'The Popular Definition of Lean', 'What Is Lean?', 'What Did Ohno Say about the Toyota Production System?', 'The TPS and Lean Manufacturing Defined', 'Who Developed the TPS?', and 'The Two Pillars of the TPS'. The main text area displays the chapter title '2. Lean Manufacturing and the Toyota Production System' and a sub-section '2.1. The Popular Definition of Lean'. The text describes the chapter's focus on defining Lean Manufacturing and comparing it to other philosophies, mentioning the creator of the TPS, Taiichi Ohno, and discussing the limitations of Lean Manufacturing. A bullet point indicates that the popular definition of Lean Manufacturing and the Toyota Production System usually consists of the following:

- It is a comprehensive set of techniques that, when combined and matured, will allow you to reduce and then eliminate the seven wastes. This system not only will make your company Leaner, but subsequently more flexible and more responsive by reducing waste.

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29	30	31				

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