

Documents and the Net

Larry Masinter

PARC/ISTL

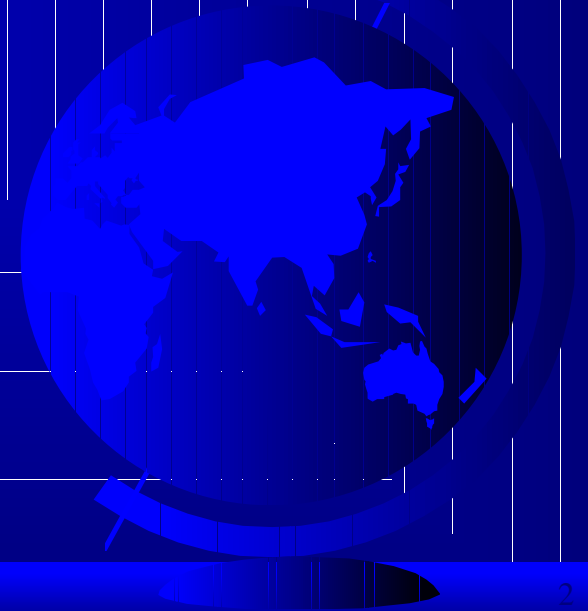
November 2, 1995



Outline of talk

- What is document management
- Assumptions about the net
- Document management on the net

Four kinds of applications



What is Document Management

Many components:

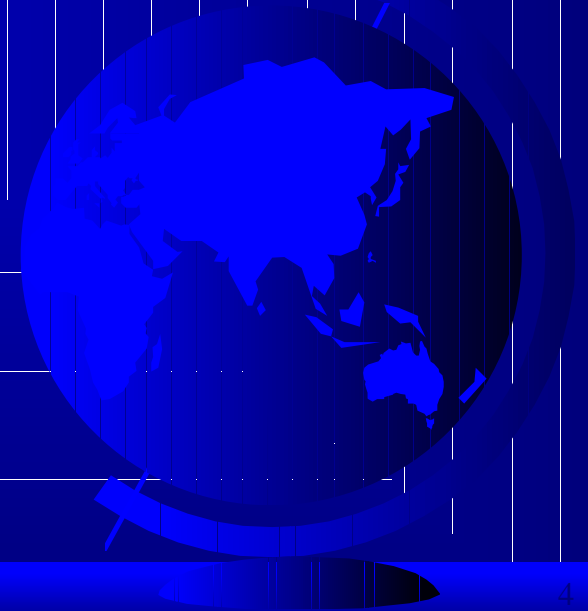
- Authoring & acquisition
- Information access, text retrieval
- Library services
- Workflow

*Growing market for products and services
for workgroups and enterprises*



Assumptions about the Net

- One network
- Global authentication
- Secure communication
- Copyright management
- Reliable payment



Four Reasons to Manage Documents

- Document as Memory
- Document as Process
- Document for Product
- Document as Product



Document as Memory: Knowledge workers

- Law office:
 - track correspondence, previous work
- Product organization:
 - manage database of customer complaints
- Marketing department:
 - competitive profiles



Document as Memory: Opportunities

- Customer feedback, discussion
 - support forums allow customers to post questions and have answers appear publicly.
- Distributed workgroups
 - virtual corporations
 - trade associations
- Telecommuting

Organizational boundaries blur... Distributed workgroups



Online Service Support Forum

COMPUTING

COMPUTING FORUMS

Check for Active Rooms

- Auditorium - The Rotunda
- Tonight in The Forums
- Conference Center
- Search Computing
- Redgate New Product Showcase
- The Help Desk
- Business
- Communications & Networks
- Desktop Publishing
- Development
- Education
- Games & Entertainment

Keyword: Computing

Consumer Electronics

Top Internet Sites

Print & Broadcast

Software Libraries

Family Computing

Industry Connection

MAIN MENU

MEMBER SERVICES

INDEX

NCSA Mosaic - WWW4: Reviewer Management Information Tracking System

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http://ednet.gsfc.nasa.gov/cgi-bin/dbform_ednet

Fill In Key Values:

SUBMISSION INFORMATION

Paper id #:

Title of the Technical Paper / State of the Art Report:

Paper URL:

[Link to submissions directory index](#)

GRADING INFORMATION

Novelty and Originality
 Does the paper add new work to the field?

Relevance
 Does it work toward the goals of the conference?

Quality of work
 The quality and importance of the products, ideas, prototypes, theories, etc described.

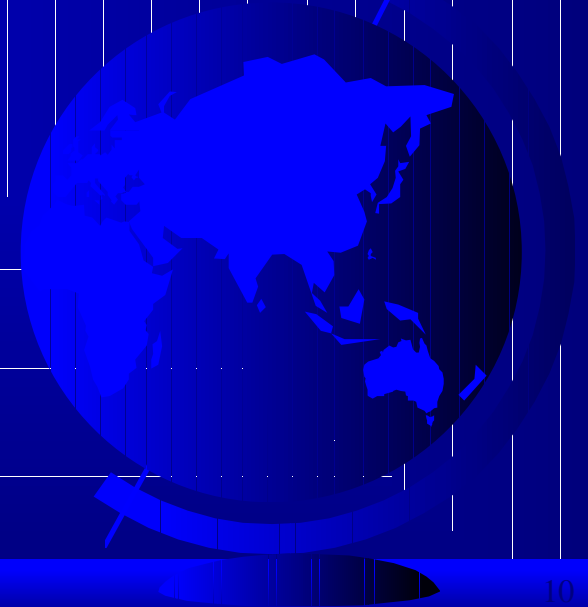
Quality of writing
 How well are the ideas communicated? How complete are the references?

For Help, press F1 Wed 11/1/95 8:48:54pm

Distributed review committee



Distributed Notes system let judges collaborate on reviews.



Document as Process: Managing work

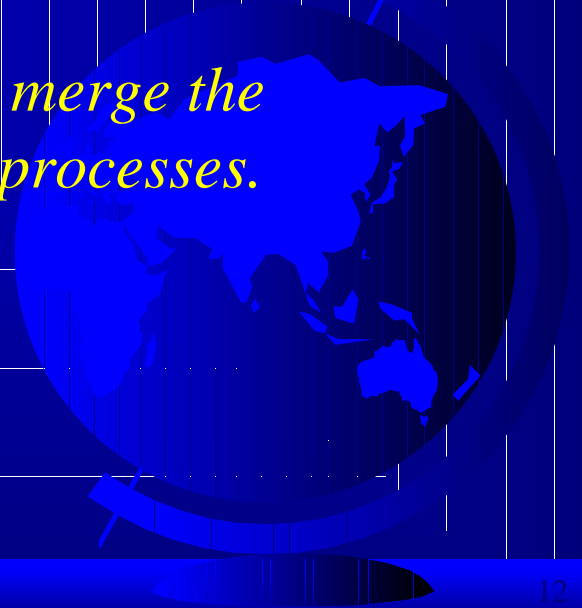
- Insurance company
 - claims processing
- Financial services
 - loan approvals
- Government offices
 - permits, claims, approvals
- Commercial organizations
 - order entry, delivery, and collection.



Opportunities: Move process outside organization

- Order entry: Buying a pizza.
- Order entry: Reserve a hotel room
- Order tracking: FedEx


In general, this works when the company can merge the Internet interface with the company's own processes.



Netscape - [Pizza Hut Menu]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop



Pizza Hut Menu

This form will send an order to the Pizza Hut located at 123 Main Street, which can be reached at 123-555-4567.

You may choose one of our specialty pizzas, or you may create your own below.

[New Stuffed Crust Pizza](#) (Large \$9.99)

[Specialty Pizzas](#) (Medium \$11.50 Large \$14.50)

Qty	Toppings	Style	Size
1	Veggie Lover's	Hand Tossed	Large
0	Supreme	Stuffed	Large

[Super Supreme](#) (Medium \$12.50 Large \$15.50)

Qty	Toppings	Style	Size
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Netscape - [FedEx Airbill Tracking Form]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop

FedEx Track a Package
Federal Express

NEW Macintosh® [Software](#) Now Available!

Package Tracking Number

Select Destination Country

- USA
- ALGERIA
- AMERICAN SAMOA
- ANGOLA
- ANGUILLA
- ANTIGUA

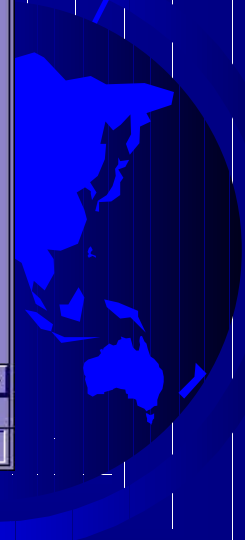
Send Request

Clear Form

You can track the status of your package anytime of day, anywhere in the world. You'll be able to follow your package's journey even while it is still in transit. Type in your FedEx package tracking number in the field above and the delivery and/or the scan information for the package will be displayed.

When tracking international packages please select the destination country by highlighting the country name on the scrollable table shown below. Select "Send Request".

Special information about:
[Email Tracking](#)



Document for Product: Manufacturing and Service

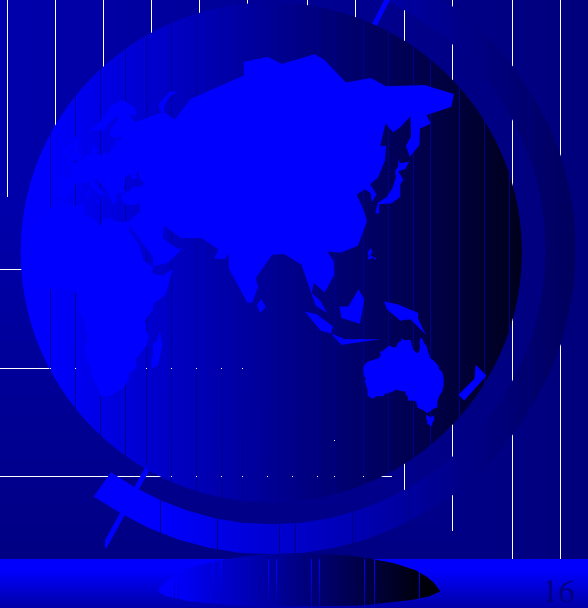
- Aerospace
 - Every plane is different: repair, specifications
- Pharmaceuticals
 - New Drug Applications
- Financial services firm
 - fact sheets about investments
- Software
 - documentation



Documents for Product: Opportunities

- Product data sheets
 - semiconductors, plastics or clothing.
- Product manuals
 - Novell
- Construction
 - VRML rendering

*Direct access by customers,
communication with suppliers*



Description

The Plug-N-Play Real Time Clocks (PnP RTC) are designed as successors to the industry standard [DS1285/DS1287](#) and [DS12885/DS12887](#) real time clocks. These devices provide the industry standard [DS1285](#) clock function with either +3.0 or +5.0 volt operation. The PnP RTC incorporates a number of enhanced features including a silicon serial number, power on/off control circuitry, 114 bytes of user NVRAM plus additional NVRAM, and a 32.768 KHz output for sustaining power management activities.

The power control circuitry allows the system to be powered on via an external stimulus, such as a keyboard or by a time and date (wake up) alarm. The PWR\ output pin can be triggered by one or either of these events, and can be used to turn on an external power supply. The PWR\ pin is under software control, so that when a task is complete, the system power can then be shut down.

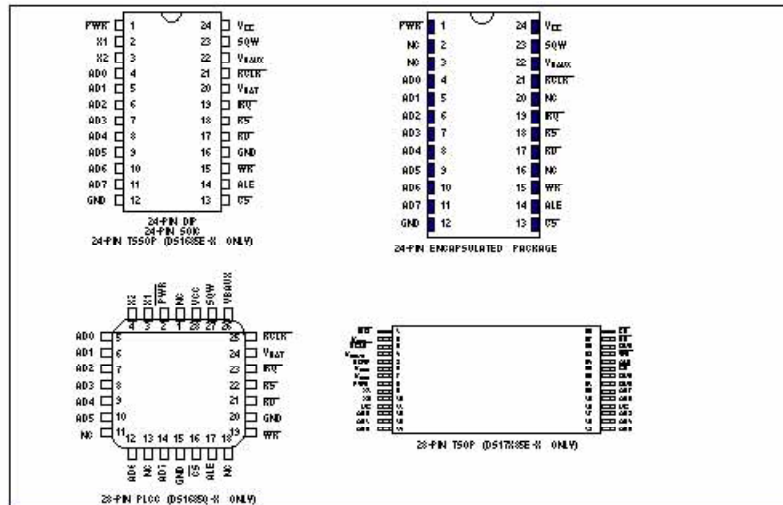
An external crystal and battery are the only components required to maintain time-of-day and memory status in the absence of power. The 24-pin encapsulated module incorporates a 24-pin DIP chip, a 32.768 KHz crystal, and a lithium battery in a complete, self-contained timekeeping module. The entire unit is fully tested at Dallas Semiconductor such that a minimum of 10 years of timekeeping and data retention in the absence of VCC is guaranteed.

For a complete description of operating conditions, electrical and mechanical characteristics, and bus timing please refer to the individual data sheets.

Operation

The block diagram in Figure 1 shows the pin connections with the major internal functions. The following paragraphs describe the function of each pin.


Pin Assignment



NCSA Mosaic - CYCOLAC GHT4320

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http://www.ge.com/gep/datasheets/cycolacght4320.html



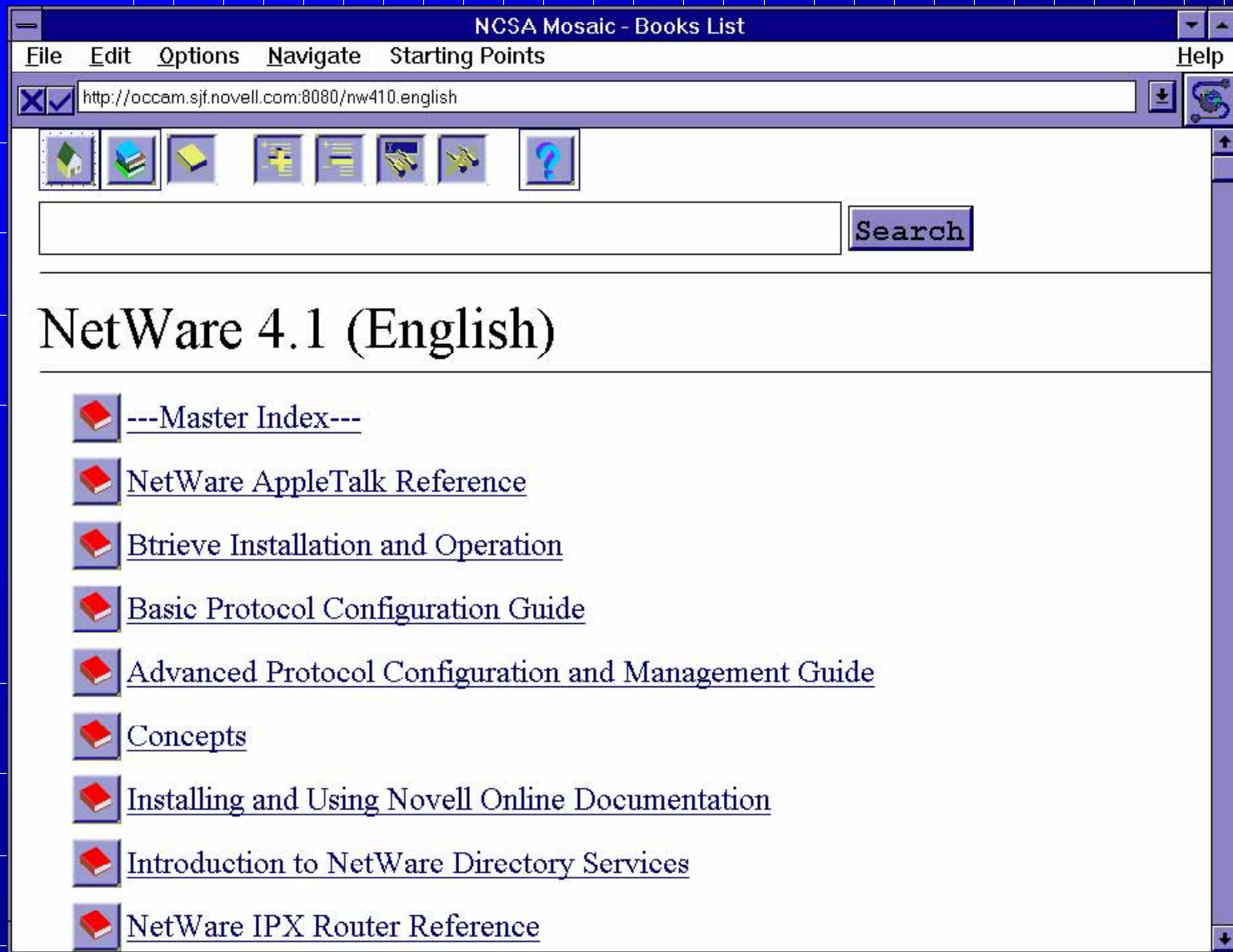
GE *Plastics*

Product Data Sheet
CYCOLAC GHT4320










Automotive. High heat family. Highest heat/medium impact resistant.

Tensile Modulus, Type I, 0.125"	350000.0000 psi	ASTM D 638
Flexural Strength, yield, 0.125"	13700.0000 psi	ASTM D 790
Hardness, Rockwell R	115.0000 -	ASTM D 785
Izod Impact, notched, 73F	2.5000 ft-lb/in	ASTM D 256
Izod Impact, notched, -20F	1.1000 ft-lb/in	ASTM D 256
Instrumented Impact Energy @ peak, 73F	120.0000 in-lbs	ASTM D 3763
HDT, 66 psi, 0.125", unannealed	212.0000 deg F	ASTM D 648
HDT, 264 psi, 0.125", unannealed	197.0000 deg F	ASTM D 648
HDT, 264 psi, 0.250", unannealed	211.0000 deg F	ASTM D 648
HDT, 264 psi, 0.500", unannealed	220.0000 deg F	ASTM D 648
Specific Gravity, solid	1.0500 -	ASTM D 792
Mold Shrinkage, flow (selection)	6.5000 in/in E-	ASTM D 955
Mold Shrinkage, flow, 0.125"	5-8 in/in E-	ASTM D 955
Melt Viscosity, 260C, 1000 sec-1	2000.0000 poise -	

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES. ALL DATA SUBJECT TO STANDARD DISCLAIMER



NetWare 4.1 (English)

-  [---Master Index---](#)
-  [NetWare AppleTalk Reference](#)
-  [Btrieve Installation and Operation](#)
-  [Basic Protocol Configuration Guide](#)
-  [Advanced Protocol Configuration and Management Guide](#)
-  [Concepts](#)
-  [Installing and Using Novell Online Documentation](#)
-  [Introduction to NetWare Directory Services](#)
-  [NetWare IPX Router Reference](#)

Document as Product: Publishers and Education

- Entertainment
- Textbooks
- Document assembly
- Just-in-time production
- Course packs

*Publishers have a special privilege
in electronic commerce*



Opportunities

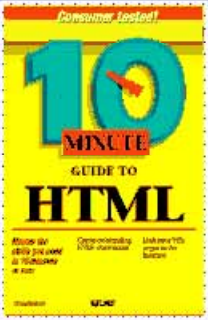
- Promotion
 - information about movies, sample chapters
- Order entry
 - bookstore on the net
- Distribution
 - document over the net to point of need
- Delivery
 - Consumer purchase and take delivery online



NCSA Mosaic - 10 Minute Guide to HTML

File Edit Options Navigate Starting Points Help

http://www.mcp.com/52910981252000/cgi-bin/bag?isbn=1-07897-0541-9&last=/bookstore



10 Minute Guide to HTML


Imprint: Que
Author: Tim Evans
Publication Date: Jul-95
ISBN: 1-07897-0541-9
Retail Price: \$14.99 US

Each day, 50 to 100 new servers are added to the World Wide Web. New servers means new users -- and a great demand for a simple tutorial to get them up and running quickly. Que answers that demand with this quick guide covering all the essentials, from how to get started to adding sound and video to your documents.

- Readers learn how to create their own Web pages
- Provides real HTML examples
- Readers learn from mini-tutorials that can be completed in 10 minutes or less

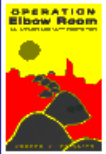
NCSA Mosaic - Suggested Books: Science Fiction

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Science Fiction

We can let you know when books our editors think are outstanding are released in the Science Fiction category. See our [Editors' Notification Service](#). We give an *additional* discount on books bought via this service.



[Operation Elbow Room](#)
by [Joseph J. Phillips](#)


Paperback
List: \$11.95 -- Amazon.com Price: \$9.56 -- You Save: \$2.39(20%)
Availability: This item usually shipped within 2-3 days

3 NCSA MOSAIC

NCSA Mosaic - Case Method: Tasks and Deliverables

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http://www.aw.com/cp/barker-tasks.html




Corporate and Professional Publishing Group

Case Method

Tasks and Deliverables

by **Richard Barker**
Addison-Wesley Professional Computing Series
ISBN 0-201-41697-2 * Hardcover * 352 pages * ©1990



This document contains a [Book Description](#), [Quotes of Note](#), and the [Table of Contents](#).

You can also access: [Preface](#), [Cover \(74K\)](#), [Ordering Information](#), or [C&P Welcome Page](#).


About Case Method: Tasks and Deliverables

Analysts, project leaders and system developers can now build integrated business systems by using this complete guide to ORACLE's CASE Method. This highly practical book identifies the key tasks and defines the major deliverables required at every stage of the development life cycle. Highlights of the book include:

NCSA Mosaic - Paramount Pictures Online Studio

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http://www.paramount.com



Click the TV Screen to go directly to the TV show, click the Gate for Studio News, or click a Movie Poster to go directly to the movie.

Welcome to Paramount Pictures Online Studio!


With an eighty-three year legacy of Hollywood success, Paramount Pictures continues to be one of the most active motion picture and television studios in the world. Legendary directors from Alfred Hitchcock to Francis Ford Coppola, famed actors from Gary Cooper to Harrison Ford, and renowned beauties from Grace Kelly to Alicia Silverstone have walked through Paramount's famous Bronson Gate to create some of the most popular films of all time.

From "I Love Lucy" to "Frasier", from "Mission: Impossible" to "Star Trek: Voyager" - Paramount continues its legacy of top prime-time television entertainment.

NCSA Mosaic - SoftCopy Electronic Publishing

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http://softcopy.com



electronic manuscript publishers

Produce your own professional quality course books at a fraction of the traditional costs.

Welcome to the SoftCopy Publishing Home Page. The information contained on this page will give you all the detail you need to produce your own professional quality course books at a fraction of the traditional costs. If you need any help please don't hesitate to contact sales@softcopy.com.

At present SoftCopy Publishing produce five manuscripts for Microsoft Windows and the Windows versions of four of Microsoft's applications:

- [Learning Microsoft Windows 3.11](#). 4 chapters, 96 pages.
- [Learning Microsoft Word 6.0](#). 5 chapters, 136 pages.
- [Learning Microsoft Excel 5.0](#). 5 chapters, 148 pages.
- [Learning Microsoft Access 2.0](#). 5 chapters, 144 pages.
- [Learning Microsoft Visual Basic 3.0](#). 5 chapters, 132 pages.

All of the manuscripts are aimed at a beginning (stage 1 University) audience. Each manuscript provides:

- Step-by-step instructions
- Practice exercises
- Frequent screen displays
- Alternative approaches to the most commonly used features
- Full glossary
- End of lesson projects.

Conclusions

- Taking “Document Management” beyond the enterprise
- Some opportunities need not wait for technical advances
- Net is changing every kind of 'document' business.



Documents and the Net

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November 2, 1995

