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Complete PC Upgrade and Maintenance Guide continues its reign as the PC world's great problem-solving wonder. In simple, easy-to-follow language, it shows you how to prevent disasters, fix the ones that occur, and

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maximize your PC's power and longevity. Based on author Mark Minasi's popular seminars, this book is an unbeatable value. It teaches you everything you need to know to meet all your PC challenges, present and future.

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Coverage includes:

- \* Preventing hardware disasters

- \* Upgrading memory \*

- Replacing power supplies \*

- Installing EIDE and Serial

- ATA hard drives \*

- Adding SCSI ports

- \* Partitioning drives using NTFS

- and FAT32 \*

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A Technician's

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The Comprehensive  
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Layout of Printed  
Circuit Boards

This book lies at  
the interface of  
machine learning –  
a subfield of  
computer science  
that develops  
algorithms for  
challenging tasks  
such as shape or  
image recognition,



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where traditional algorithms fail – and photonics – the physical science of light, which underlies many of the optical communications technologies used in our information society. It provides a thorough

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introduction to  
reservoir  
computing and  
field-  
programmable  
gate arrays  
(FPGAs).

Recently, photonic  
implementations of  
reservoir  
computing (a  
machine learning

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algorithm based on artificial neural networks) have made a breakthrough in optical computing possible. In this book, the author pushes the performance of these systems significantly

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beyond what was achieved before. By interfacing a photonic reservoir computer with a high-speed electronic device (an FPGA), the author successfully interacts with the reservoir computer in real time,

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allowing him to considerably expand its capabilities and range of possible applications.

Furthermore, the author draws on his expertise in machine learning and FPGA programming to

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make progress on a very different problem, namely the real-time image analysis of optical coherence tomography for atherosclerotic arteries.

Written for non-specialist users of electric motors and

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drives, this book explains how electric drives work and compares the performance of the main systems, with many examples of applications. The author's approach - using a minimum of mathematics - has made this

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book equally popular as an outline for professionals and an introductory student text. \* First edition (1990) has sold over 6000 copies. Drives and Controls on the first edition: 'This book is very



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readable, up-to-date and should be extremely useful to both users and o.e.m. designers. I unhesitatingly recommend it to any busy engineer who needs to make informed judgements about

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selecting the right drive system.' New features of the second edition: \* New section on the cycloconverter drive. \* More on switched reluctance motor drives. \* More on vector-controlled induction motor

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drives. \* More on power switching devices. \* New 'question and answer' sections on common problems and misconceptions. \* Updating throughout.

Electric Motors  
and Drives is for

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non-specialist users of electric motors and drives. It fills the gap between specialist textbooks (which are pitched at a level which is too academic for the average user) and the more prosaic 'handbooks' which

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are filled with useful detail but provide little opportunity for the development of any real insight or understanding.

The book explores most of the widely-used modern types of motor and drive, including

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conventional and brushless d.c., induction motors (mains and inverter-fed), stepping motors, synchronous motors (mains and converter-fed) and reluctance motors. Presents information on

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Engineering

• • PCI EXPRESS

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is considered to be the most general purpose bus so it should appeal to a wide audience in this arena. • Today's buses are becoming more specialized to

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meet the needs  
of the  
particular  
system  
applications,  
building the  
need for this  
book. •Mindshar  
e and their  
only  
competitor in  
this space,

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tools,  
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and  
information  
for making  
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synthesizer.

If you're a musician or a hobbyist with experience in building electronic projects from kits or schematics, this do-it-yourself guide

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will walk you through the parts and schematics you need, and how to tailor them for your needs. Author Ray Wilson shares his decades of experience in

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synth-DIY,  
including the  
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From Outer  
Space (MFOS)  
website and  
analog synth  
community. At  
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book, you'll  
apply  
everything

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you've learned  
by building an  
analog  
synthesizer,  
using the MFOS  
Noise Toaster  
kit. You'll  
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How to tool up

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kit Setting up  
a synth-DIY  
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on a budget  
The Technology  
Of Cad/Cam/Cim  
Deals With The  
Creation Of  
Information At  
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Design To  
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Information  
And Its  
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Among The  
Various  
Activities  
Like Design,

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Product Data  
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Planning,  
Production  
Planning And  
Control,  
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Inspection,  
Materials  
Handling Etc.,  
Which Are

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Carried Out  
Through  
Computer  
Software.  
Seamless  
Transfer Of  
Information  
From One  
Application To  
Another Is  
What Is Aimed

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At. This Book  
Gives A  
Detailed  
Account Of The  
Various  
Technologies  
Which Form  
Computer Based  
Automation Of  
Manufacturing  
Activities.  
The Issues



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Pertaining To  
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Ofgraphics  
Data,  
Communication,  
Manufacturing  
Information  
Creation And  
Manufacturing

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Principles Of  
Concurrent  
Engineering  
Have Been  
Explained And  
Latest  
Software In  
The Various

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Areas Have  
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Introduced. The  
Book Is  
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Two Objectives  
To Serve As A  
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Cad/Cam/Cim

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