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*Ee117 Electromagnetics Ii  
Ee Ucr*

This book provides readers with fundamental assembly language programming skills, an understanding of the functional hardware components

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of a microcontroller, and skills to interface a variety of external devices with microcontrollers. Chapter topics cover an introduction to the 68HC12, 68HC12 assembly language programming, advanced assembly programming, fuzzy logic, hardware

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configuration, exception—resets and interrupts, the 68HC12 clock module and standard timer module (TIM), the 68HC12 memory system, analog-to-digital (ATD) converter, and 68HC12 communications system—multiple serial interface. For electrical and computer

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engineers.

Guru and Hizioglu have produced an accessible and user-friendly text on electromagnetics that will appeal to both students and professors teaching this course. This lively book includes many worked examples and problems

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in every chapter, as well as chapter summaries and background revision material where appropriate. The book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields, before moving on to cover Maxwell's equations,

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propagation, transmission and radiation. Chapters on the Finite Element and Finite Difference method, and a detailed appendix on the Smith chart are additional enhancements. MathCad code for many examples in the book and a comprehensive

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solutions set are available at  
[www.cambridge.org/9780521830164](http://www.cambridge.org/9780521830164).  
This is the seventh volume in the Wiley  
Series in Solid State Devices and  
Circuits, and deals comprehensively  
with the use of gallium arsenide for  
high frequency and high speed circuits.

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Automatic object recognition is a multidisciplinary research area using concepts and tools from mathematics, computing, optics, psychology, pattern recognition, artificial intelligence and various other disciplines. The purpose of this research is to provide a set of

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coherent paradigms and algorithms for the purpose of designing systems that will ultimately emulate the functions performed by the Human Visual System (HVS). Hence, such systems should have the ability to recognise objects in two or three

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dimensions independently of their positions, orientations or scales in the image. The HVS is employed for tens of thousands of recognition events each day, ranging from navigation (through the recognition of landmarks or signs), right through to

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communication (through the recognition of characters or people themselves). Hence, the motivations behind the construction of recognition systems, which have the ability to function in the real world, is unquestionable and would serve

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industrial (e.g. quality control), military (e.g. automatic target recognition) and community needs (e.g. aiding the visually impaired). Scope, Content and Organisation of this Book This book provides a comprehensive, yet readable foundation to the

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field of object recognition from which research may be initiated or guided. It represents the culmination of research topics that I have either covered personally or in conjunction with my PhD students. These areas include image acquisition, 3-D

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object reconstruction, object modelling, and the matching of objects, all of which are essential in the construction of an object recognition system.

"David Gould is an expert at using, programming, and teaching Maya, and it shows. People who

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need to program Maya will find this book essential. Even Maya users who don't intend to do extensive programming should read this book for a better understanding of what's going on under the hood. Compact yet thorough, it covers both MEL and



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the C++ API, and is written to be informative for both novice and expert programmers. Highly recommended!" -Larry Gritz, Exluna/NVIDIA, co-author of Advanced RenderMan: Creating CGI for Motion Pictures "This book should be required reading for all

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Maya programmers, novice and expert alike. For the novice, it provides a thorough and wonderfully well thought-out hands-on tutorial and introduction to Maya. The book's greatest contribution, however, is that in it David shares his deep

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understanding of Maya's fundamental concepts and architecture, so that even the expert can learn to more effectively exploit Maya's rich and powerful programming interfaces." -Philip J. Schneider, Disney Feature Animation, co-

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author of Geometric Tools for Computer Graphics "Having provided a technical review of David Gould's Complete Maya Programming, I must say that this book is the definitive text for scripting and plug-in development for Maya. Never before has there

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been such a concise and clearly written guide to programming for Maya. Any user smart enough to pick up this book would be better off for it." -Chris Rock, a Technical Director at "a Large Animation Studio in Northern California" "If you ever wanted to open the

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Maya toolbox, this is your guide. With clear step-by-step instructions, you will soon be able to customize and improve the application, as well as create your own extensions, either through the MEL scripting language or the full C++ API." -Christophe Hery,

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Industrial Light & Magic Learning  
Maya, the world's leading 3D  
animation and effects package, is  
a challenge, especially for those  
who want to master Maya's  
versatile programming features in  
addition to its built-in tools.  
Finally, here is a practical, step-by-

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step guide that shows how to use Maya to its fullest potential, beginning with the basics. Readers of Complete Maya Programming will first gain a thorough understanding of Maya's inner workings, and then learn how to customize and extend



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Maya with scripts and plugins that take control and productivity to new levels. Users new to programming can apply Maya's easy scripting language MEL (Maya Embedded Language), while more advanced users can work with the C++ API

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(Application Programming Interface). Both a fundamental tutorial for Maya beginners and a solid reference for experienced developers, Complete Maya Programming is every user's guide to Maya mastery.

FEATURES: \*Demonstrates how to

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use MEL to control Maya, customize its interface, automate procedures, and more \*Details how to use the C++ API to modify Maya functionality and develop tools and features to meet any need \*Explains when to use MEL, when to use the C++ API, and

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how to use them together  
\*Provides a multitude of real-world examples illustrating applications of Maya programming \*Ideal for technical directors, developers, or anyone wishing to master Maya \*Provides a storehouse of MEL scripts and

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C++ source code, glossary, and list of resources, available at [www.davidgould.com](http://www.davidgould.com)

This extremely valuable learning resource is for students of electromagnetics and those who wish to refresh and solidify their understanding of its challenging

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applications. Problem-solving drills help develop confidence, but few textbooks offer the answers, never mind the complete solutions to their chapter exercises. In this text, noted author Professor Syed Nasar has divided the book's

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problems into topic areas similar to a textbook and presented a wide array of problems, followed immediately by their solutions.

[Dynamic Systems](#)

[Design with Microcontrollers](#)

[Xilinx Student Edition 1.3](#)

[Materials, Devices, and Circuits](#)

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### [Object Recognition by Computer](#)

This textbook is ideal for a course in engineering systems dynamics and controls. The work is a comprehensive treatment of the analysis of lumped parameter physical systems. Starting with a discussion of mathematical models



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in general, and ordinary differential equations, the book covers input/output and state space models, computer simulation and modeling methods and techniques in mechanical, electrical, thermal and fluid domains. Frequency domain methods, transfer functions

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and frequency response are covered in detail. The book concludes with a treatment of stability, feedback control (PID, lead-lag, root locus) and an introduction to discrete time systems. This new edition features many new and expanded sections on such topics

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as: solving stiff systems,  
operational amplifiers,  
electrohydraulic servovalves, using  
Matlab with transfer functions,  
using Matlab with frequency  
response, Matlab tutorial and an  
expanded Simulink tutorial. The  
work has 40% more end-of-chapter

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exercises and 30% more examples. This book describes an extended series of experiments into the role of geometry in the critical area of object recognition.

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***Introduction to modeling and***

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***simulation - Models for  
dynamic systems and systems  
similarity - Modeling of  
engineering systems -  
Mechanical systems -  
Electrical systems - Fluid  
systems - Thermal systems -***

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***Mixed discipline systems -  
System dynamic response  
analysis - Frequency response  
- Time response and digital  
simulation - Engineering  
applications - System design  
and selection of components.***

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***This text is intended for a first course in dynamic systems and is designed for use by sophomore and junior majors in all fields of engineering, but principally mechanical and electrical engineers. All***



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***engineers must understand  
how dynamic systems work  
and what responses can be  
expected from various  
physical systems.***

***This work stresses practical,  
hands-on experience for***

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*learning how to design logic using FPGAs and CPLDs. It presents approximately 10 laboratories that progressively show more complex designs and how they are implemented.*

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***The Story of Fiber Optics***  
***Single- and Multiple-chip***  
***Microcomputer Interfacing***  
***Modeling and Analysis of***  
***Dynamic Systems***  
***Dynamic Modeling and Control***  
***of Engineering Systems***

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## **HC12 and S12**

This text presents the history of the development of fibre optic technology, explaining the scientific challenges that needed to be overcome, the range of applications and future potential for this

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fundamental communications  
technology.

Covers the techniques used in  
Fourier analysis, looks at periodic  
waveforms, discrete frequency  
spectra, signal theory, and linear  
systems, and offers examples and

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