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Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which

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modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering. Encouraged by the response to the first edition and to keep pace with recent

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developments,
Fundamentals of
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incorporates greater
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conductor controlled
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switched reluctance
motor drives, and
highlights new

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*trends in drive
technology. Contents
were chosen to
satisfy the changing
needs of the industry
and provide the
appropriate coverage
of modern and
conventional drives.
With the large
number of examples,
problems, and
solutions provided,*

Fundamentals of

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*Electrical Drives,
Second Edition will
continue to be a
useful reference for
practicing engineers
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*This monograph by
one of the world's
leading vision
researchers provides
a thorough, mathemat*

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*Electrically rigorous
exposition of a broad
and vital area in
computer vision: the
problems
and techniques
related to three-
dimensional (stereo)
vision and motion.
The emphasis is on
using geometry to
solve problems in
stereo and motion,
with examples from*

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navigation and object recognition. Faugeras takes up such important problems in computer vision as projective geometry, camera calibration, edge detection, stereo vision (with many examples on real images), different kinds of representations and

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*transformations
(especially 3-D
rotations),*

*uncertainty and
methods*

*of addressing it, and
object representation
and recognition. His
theoretical account is
illustrated with the
results of actual
working programs. The
ree-Dimensional
Computer Vision*

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proposes solutions to problems arising from a specific robotics scenario in which a system must perceive and act.

Moving about an unknown environment, the system has to avoid static and mobile obstacles, build models of objects and places in order to be

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able to recognize and locate them, and characterize its own motion and that of moving objects, by providing descriptions of the corresponding three-dimensional motions. The ideas generated, however, can be used in different settings, resulting in a general book on computer

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vision that reveals
the fascinating
relationship of three-
dimensional
geometry and
the imaging
process. Olivier
Faugeras is Research
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Sophia-Antipolis and
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*Applied Mathematics
at the Ecole
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lives, being
at the heart
of much of
today's
essential
technology -
from mobile
phones to
computers,
from cars to
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stations. As

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such, all engineers, scientists and technologists need a basic understanding of this area, whilst many will require a far greater knowledge of the subject.

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The third
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introduction
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approach,
firstly
explaining the
overall
concepts to
build
students'
confidence and
understanding,
before looking
at the more
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analysis that follows. This allows the student to contextualise what the system is designed to achieve, before tackling the intricacies of

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the individual
components.
The book also
offers an
integrated
treatment of
analogue and
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electronics
highlighting
and exploring
the common

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ground between
the two
fields.

Throughout the
book learning
is reinforced
by chapter
objectives,
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summaries,
worked
examples and

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exercises.

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useful source

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amps New

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increased

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worked
examples
within the
text

Additional Sel
f-Assessment
questions at
the end of
each chapter

Dr. Neil

Storey is a
member of the

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School of
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the University
of Warwick,
where he has
many years of
experience in
teaching
electronics to
a wide-range
of
undergraduate,

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professional
engineers. He
is also the
author of "Safety-Critical
Computer
Systems" and
"Electrical
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There is an established interest in integrating databases and programming languages. This book on Data Types and

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evolved from
the

proceedings of
a workshop
held at the
Appin in
August 1985.

The purpose of
the Appin
workshop was
to focus on

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these two
aspects:
persistence
and data
types, and to
bring together
people from
various
disciplines
who have
thought about
these

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problems.
Particular
topics
of"interest
include the
design of type
systems
appropriate
for database
work, the
representation
of persistent

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objects such as data types and modules, and the provision of orthogonal persistence and certain aspects of transactions and concurrency.

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The programme was broken into three sessions: morning, late afternoon and evening to allow the participants to take advantage of two beautiful

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acknowledged.
We would also
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Isabel Graham,
Anne Donnelly
and Estelle
Taylor for
their help in

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organising the
workshop.

Finally our
thanks to Pete
Bailey, Ray
Carick and
Dave Munro for
the immense
task they
undertook in
typesetting
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convergence of programming languages and databases to a coherent and consistent whole requires ideas from, and adjustment in, both intellectual camps. The

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first group of
chapters in
this book
present ideas
and
adjustments
coming from
the
programming
language
research
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This community frequently discusses types and uses them as a framework for other discussions.

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provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows

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and easily
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lectures,
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already embedded
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from. At the
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questions are**

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*Understanding how
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*Berthold K. P. Horn is
Professor of Electrical
Engineering and
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MIT. He has presided
over the field of
machine vision for
more than a decade
and is the author of*

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Robot Vision. Michael Brooks is Reader in Computer Science at The Flinders University of South Australia. Shape from Shading is included in the Artificial Intelligence series, edited by Michael Brady, Daniel Bobrow, and Randall Davis.

The technical systems

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we develop today are complicated. The challenges vehicle manufacturers are facing involve a combination of the fields of electronics, mechanics, control engineering, telecommunications, computer engineering, and software programming in order

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to realise the required functionality. This multi-disciplinary field of engineering is called mechatronics, and one of the key disciplines in this field is electronic engineering. Consequently, knowledge of the basic laws and principles of electronic engineering is

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mandatory for anyone who wants to work in the field of mechatronics. This book therefore explains the fundamentals of electrical engineering with an emphasis on mechatronic systems. Starting with basic laws, the main focus is on circuit analysis, including DC and AC

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*circuits, transient
effects, filters and
oscillating circuits.*

*Basic circuit elements
are introduced as well
as more complex
semiconductor
devices like
operational amplifiers,
biopolar junction
transistors and
MOSFET field-effect
transistors. Finally, a
short introduction to*

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*the important field of
circuit simulation
completes the book.*

*The latest vehicles
are classic examples
of mechatronic
systems. Automotive
applications are
therefore used
throughout the book
as examples to
demonstrate the
application of the
discussed topics in a*

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mechatronic
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environment.

This book presents the outcomes of the 12th International Workshop on the Algorithmic Foundations of Robotics (WAFR 2016). WAFR is a prestigious, single-track, biennial international meeting devoted to recent

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Robotics*

advances in algorithmic problems in robotics. Robot algorithms are an important building block of robotic systems and are used to process inputs from users and sensors, perceive and build models of the environment, plan low-level motions and high-level tasks,

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*control robotic
actuators, and*

*coordinate actions
across multiple
systems. However,
developing and
analyzing these
algorithms raises
complex challenges,
both theoretical and
practical. Advances in
the algorithmic
foundations of
robotics have*

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*applications to
manufacturing,*

*medicine, distributed
robotics, human–robot
interaction, intelligent
prosthetics, computer
animation,*

*computational
biology, and many
other areas. The 2016
edition of WAFR went
back to its roots and
was held in San*

Francisco, California –

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*the city where the
very first WAFR was
held in 1994.*

*Organized by Pieter
Abbeel, Kostas
Bekris, Ken Goldberg,
and Lauren Miller,
WAFR 2016 featured
keynote talks by John
Canny on “A Guided
Tour of Computer
Vision, Robotics,
Algebra, and HCI,”
Erik Demaine on*

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*“Replicators,
Transformers, and
Robot Swarms:
Science Fiction
through Geometric
Algorithms,” Dan
Halperin on “From
Piano Movers to
Piano Printers:
Computing and Using
Minkowski Sums,”
and by Lydia Kavraki
on “20 Years of
Sampling Robot*

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Motion.” Furthermore, it included an Open Problems Session organized by Ron Alterovitz, Florian Pokorny, and Jur van den Berg. There were 58 paper presentations during the three-day event. The organizers would like to thank the authors for their work and contributions, the

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*reviewers for ensuring
the high quality of the
meeting, the WAFR
Steering Committee
led by Nancy Amato
as well as WAFR's
fiscal sponsor, the
International
Federation of
Robotics Research
(IFRR), led by
Oussama Khatib and
Henrik Christensen.
WAFR 2016 was an*

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*enjoyable and
memorable event.*

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