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***selected, peer
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papers from
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and
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(ICMSCM
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**September
28-29, 2013,
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mmunication,
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easurements;
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miconductors
and Other
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***Industry
Interest in
control of
climbing and
walking robots
has
remarkably
increased over
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***Novel
solutions of
complex***

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***mechanical
systems such
as climbing,
walking, flying
and running
robots with
different kinds
of locomotion
and the
technologies
that support
them and their***

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***applications
are the
evidence of
significant
progress in
the area of
robotics.***

***Supporting
technologies
include the
means by
which robots***

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***use to sense,
model, and
navigate
through their
environments
and, of course,
actuation and
control
technologies.
Human
interaction
including***

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***exoskeletons,
prostheses
and orthoses,
as well as
service robots,
are
increasingly
active
important
pertinent
areas of
research. In***

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***addition,
legged
machines and
tracked
platforms with
software
architecture
seem to be
currently the
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of most
interest to the***

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**robotics
community. Co
ntents:Plenary
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ally-Inspired
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tive Design of
CLAWARInnov**

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and Actuation
LocomotionMa
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and
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engineers,
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engineers,
mechanical
engineers in
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settings.
Engineers and
practitioners**

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***in the public
services
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problemsIt is
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and industry.
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and practition
ersProminent
professors
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plenary presen
tationsKeywor
ds:Assistive R
obotics;Auton
omous Robots;
Biologically
Inspired Robot**

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***ics;CLAWAR;Cl
imbing and
Walking
Robots;Design
of CLAWAR;Hy
brid Locomotio
n;Legged Loco
motion;Mobile
Robots;Modeli
ng and Simula
tion;Planning
and***

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***Control; Robot
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n; Service Robo
tics; Wheeled
Locomotion
The volume
will include
selected and
reviewed
papers from
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**Congress of
Automotive
and Transport
Engineering to
be held in
Brasov,
Romania, in
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experts from
research,
industry and**

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**universities
coming from
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developments
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vehicles and
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***in cooperation
with FISITA.***

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presents a
step-by-step
design and
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guide for***

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***heavy-duty
electric
vehicles. It
also offers
practical
insights based
on the
commercial
application of
an electric city
bus. Heavy-
duty electric***

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***vehicle design
is challenging
due to a lack
of clear
understanding
of the
government
policies, R&D
directions and
uncertainty
around the
performance***

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***of various
subsystems in
an electric
powertrain.***

***Therefore, this
book***

***discusses key
technical***

aspects of

***motors, power
electronics,***

batteries and

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vehicle control systems, and outlines the system integration strategies necessary for design and safe operation of electric vehicles in practice. This

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comprehensive book serves as a guide to engineers and decision makers involved in electric vehicle development programs and assists them

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***in finding the
suitable
electric***

***powertrain
solution for a
given heavy-
duty vehicle
application.
Offers an
overview of
various
standards and***

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***regulations
that guide the
electric
vehicle design
process and a
comprehensive
discussion
on various
government
policies and
incentive
schemes***

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growth of
heavy electric
vehicle
markets
across the
world;
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comparative
evaluation of
different
electric***

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calculation
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like charging
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requirements
and vehicle
control system
diagnostics.
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authors demonstrate the key steps of building a robot from beginning to end, with independent examples for extra modules. Each chapter covers basic theory and key

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topics,
including
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application of
AI techniques
and provides
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includes:
Comprehensive
coverate on
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techniques,

with a focus on
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Techniques for
designing and

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slightly

advanced

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systems, and
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as their final-
year project,
the authors
hope that this
book will
empower readers
in terms of the

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well as the

understanding
of how various
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greater details
on semi-
conductor
controlled
drives,

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drives and
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problems, and
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continue to be
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practicing
engineers and
for those

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Management, Air

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authorities and

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for energy
efficiency.

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and

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courses in
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drives, this
book covers
topics on:
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control of
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drives;
Selection of
motor power
rating; DC,

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induction and
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motor drives;

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and switched

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motor drives;

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magnet ac and

brushless dc

motor drives;

and more.

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ICIMES 2020
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Dynamics, IAVSD
2021, August
17-19, 2021,
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All Wheel Drive

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CLAWAR 2014

The AVEC

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***symposium is
a leading
international
conference in
the fields of
vehicle
dynamics and
advanced
vehicle
control,
bringing
together***

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industry. The
first
symposium
was held in
1992 in
Yokohama,
Japan. Since***

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***then, biennial
AVEC
symposia have
been
established
internationally
and have
considerably
contributed to
the progress of
technology in
automotive***

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development.*

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13th
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(AVEC'16) was
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***Germany, from
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AVEC'16 puts
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***on automatic
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driving
functions and
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systems,
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control of
interacting
control
systems,***

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suspension
systems, active
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and vehicle
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***applications in
highly relevant
areas of
vehicle
control, and
may serve as a
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researchers
and engineers.
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Description
These***

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gather
outstanding**

papers

**presented at
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Shanghai,

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China, the
biggest
carmaker as
well as most
dynamic car
market in the
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***technicians to
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ctricvehicle2e"
www.wiley.com
/go/electricveh
icle2e/a](http://www.wiley.com/go/electricvehicle2e)*

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science and
technology,
this book
is essential for
practicing
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automotive,
power, control
and instrumentation
engineers***

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***working in EV
research and
development. It
is also a
valuable
reference for
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engineering.
Raad 2012
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21th
International
Workshop on
Robotics in Al
pe-Adria-
Danube
Region
(Naples, 10-13
September

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*A large international
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Machine Learning
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California, USA,
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and systems***

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text for researchers
and graduate
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and systems
engineering.***

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**that can be used to
build a robot, and
explains how to
program and select
microprocessors for
such a creation
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chapter: highlights
the significant
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involved; provides a
historical account of***

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the technological
evolution

experienced;
distinguishes the
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mechanics; and
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needing a reference
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*the most important
findings from the
9th International
Conference on
Modelling,
Identification and
Control (ICMIC'17),
held in Kunming,
China on July 10–12,
2017. It covers most
aspects of
modelling,
identification,
instrumentation,*

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*signal processing
and control, with a
particular focus on
the applications of
research in multi-
agent systems,
robotic systems,
autonomous
systems, complex
systems, and
renewable energy
systems. The book
gathers thirty
comprehensively*

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***reviewed and
extended
contributions, which
help to promote
evolutionary
computation,
artificial intelligence,
computation
intelligence and soft
computing
techniques to
enhance the safety,
flexibility and
efficiency of***

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engineering systems. Taken together, they offer an ideal reference guide for researchers and engineers in the fields of electrical/electronic engineering, mechanical engineering and communication engineering.

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**Automobile
Engineer**

**Proceedings of the
13th International
Symposium on
Advanced Vehicle
Control (AVEC'16),
September 13-16,
2016, Munich,
Germany
Official Gazette of
the United States
Patent and
Trademark Office**

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**Mobile Service
Robotics**

**Recent Advances in
Mechanical
Engineering**

UTA Racing is known for building well-engineered FSAE racecars. This year team is building, its first electric car by

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Mae
*using AWD in-
wheel motor
concept car E-16.*

*All wheel drive
electric vehicles
has an ability to
apply
instantaneous
torque to all four
wheels permit
increased car
performance. An*

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Mae

'Active Model Based Torque Vectoring System controller' is designed to realize this objective. The controller was designed to replicate three electronically controlled LSD's on an all-wheel

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*drive platform with
different control
strategies. This
was achieved
based on the
principal of
distributing total
driver requested
torque between
wheels, equivalent
to the percentage
of the normal load*

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on the tires.

Steady state

*vehicle dynamics
models are*

*combined with on
board sensors and*

driver inputs to

calculate normal

loads on each

wheel. This system

dictates torque to

each motor

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Torque
Calculations Ufl
Mae
*controller in terms
of duty cycle
based on*

*measured inputs
Torque vectoring
system has
designed based on
two strategies
called 3 differential
strategy and 2
differential strategy
has implemented*

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in this study. The detailed discussion about reason behind these strategies are discussed in this study. MATLAB Simulink program used for programming the torque vectoring controllers due to

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*ease of
programming,
debugging,
analysis,
simulations and
automatic
conversion to
Ccode. .This state
based controller
has tested using
MATLAB program
to realize output of*

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*controller program
during different
driving scenario.*

*Industrial
electronics
systems govern so
many different
functions that vary
in complexity-from
the operation of
relatively simple
applications, such*

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*Torque
Calculations Ufl
Mae*

*as electric motors,
to that of more
complicated
machines and
systems, including
robots and entire
fabrication
processes. The
Industrial
Electronics
Handbook,
Second Edition*

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*combines
traditional and new
The ICMEA2014
will provide an
excellent
international
academic forum
for sharing
knowledge and
results in theory,
methodology and
applications of*

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*Mechanical
Engineering and
Automation. The
ICMEA2014 is
organized by
Advanced
Information
Science Research
Center (AISRC)
and is co-
sponsored by
Chongqing*

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*University,
Changsha
University of
Science &
Technology,
Huazong
University of
Science and
Technology and
China Three
Gorges University.
This ICMEA2014*

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*proceedings tends
to collect the up-to-
date,*

*comprehensive
and worldwide
state-of-art
knowledge on
mechanical
engineering and
automation,
including control
theory and*

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*application,
mechanic
manufacturing
system and
automation, and
Computer Science
and applications.
All of accepted
papers were
subjected to strict
peer-reviewing by
2-4 expert*

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referees. The papers have been selected for this volume because of quality and the relevance to the conference. We hope this book will not only provide the readers a broad overview of the latest research

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*results, but also
provide the
readers a valuable
summary and
reference in these
fields. ICMEA2014
organizing
committee would
like to express our
sincere
appreciations to all
authors for their*

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*contributions to
this book. We*

*would like to
extend our thanks
to all the referees
for their
constructive
comments on all
papers; especially,
we would like to
thank to organizing
committee for their*

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hard working.

This book

comprises the

proceedings of the

International

Conference on

Green Buildings

and Sustainable

Engineering

(GBSE 2019),

which focused on

the theme

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*“Ecotechnological
and Digital
Solutions for Smart
Cities”. The
papers included
address all
aspects of green
buildings and
sustainability
practices in civil
engineering, and
focus on ways and*

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*means of reducing
pollution and
degradation of the
environment
through efficient
usage of energy
and water. The
book will prove a
valuable reference
resource for
researchers,
practitioners, and*

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*policy makers.
From Concept to
Reality*

*Learning Robotics
using Python*

*Microelectronics,
Communication
Systems, Machine
Learning and
Internet of Things
Design, simulate,
program, and*

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*prototype an
autonomous
mobile robot using
ROS, OpenCV,
PCL, and Python,
2nd Edition*

*The Automobile
Engineer*

*Advances in
Dynamics of
Vehicles on Roads
and Tracks II*

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"This book is an introduction to automotive technology, with specific reference to battery electric, hybrid electric, and fuel cell electric vehicles. It

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*could serve
electrical
engineers who
need to know
more about
automobiles or
automotive
engineers who
need to know
about
electrical
propulsion
systems. For*

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example, this reviewer, who is a specialist in electric machinery, could use this book to better understand the automobiles for which the reviewer is designing electric drive

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*motors. An
automotive Ufl
Mae engineer, on
the other hand,
might use it to
better
understand the
nature of
motors and
electric
storage systems
for application
in automobiles,*

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trucks or
motorcycles.

The early
chapters of the
book are
accessible to
technically
literate people
who need to
know something
about cars.

While the rest
chapter is

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historical in nature, the second chapter is a good introduction to automobiles, including dynamics of propulsion and braking. The third chapter discusses, in some detail,

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*spark ignition
and compression
ignition*

*(Diesel)
engines. The
fourth chapter
discusses the
nature of
transmission
systems.”*

*—James Kirtley,
Massachusetts
Institute of*

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Technology, USA

“The third

edition covers

extensive

topics in

modern

electric,

hybrid

electric, and

fuel cell

vehicles, in

which the

profound

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*knowledge,
mathematical*

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*Mac
modeling,*

simulations,

and control are

clearly

presented.

Featured with

design of

various vehicle

drivetrains, as

well as a multi-

objective

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optimization software, it is an estimable work to meet the needs of automotive industry.”

—Haiyan Henry Zhang, Purdue University, USA

“The extensive combined experience of

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*Torque
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*the authors
have produced
an extensive
volume covering
a broad range
but detailed
topics on the
principles,
design and
architectures
of Modern
Electric,
Hybrid*

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Vehicles in a well-structured, clear and concise manner. The volume offers a complete overview of technologies, their selection,

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*integration &
control, as*

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well as an

Mae

interesting

Technical

Overview of the

Toyota Prius.

The technical

chapters are

complemented

with example

problems and

user guides to

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*assist the
reader in
practical
calculations
through the use
of common
scientific
computing
packages. It
will be of
interest mainly
to research
postgraduates*

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*working in this
eld as well as
established
academic
researchers,
industrial R&D
engineers and
allied
professionals.”*

*—Christopher
Donaghy-Sparg,
Durham
University,*

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*United Kingdom
Calculations Ufl
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The book deals
with the
fundamentals,
theoretical
bases, and
design
methodologies
of conventional
internal
combustion
engine (ICE)
vehicles,

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*Torque
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Ma
*electric
vehicles (EVs),
hybrid electric
vehicles
(HEVs), and
fuel cell
vehicles
(FCVs). The
design
methodology is
described in
mathematical
terms, step-by-*

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step, and the topics are approached from the overall drive train system, not just individual components.

Furthermore, in explaining the design methodology of each drive

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*train, design
examples are
presented with
simulation
results. All
the chapters
have been
updated, and
two new
chapters on
Mild Hybrids
and Optimal
Sizing and*

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*Dimensioning
and Control are
also included •*

Chapters

updated

throughout the

text. • New

homework

problems,

solutions, and

examples. •

Includes two

new chapters. •

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Features
accompanying

MATLAB™

software.

2014

*International
Conference on
Mechanical
Engineering and
Automation (ICM
EA2014) DEStech
Publications,
Inc*

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*This book
includes best
selected, high-
quality
research papers
presented at
the
International
Conference on
Intelligent
Manufacturing
and Energy
Sustainability*

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(ICIMES 2020)
held at the

Department of
Mechanical
Engineering,
Malla Reddy
College of
Engineering &
Technology
(MRCET),

Maisammaguda,
Hyderabad,
India, during

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August 21-22,
2020. It covers
topics in the
areas of
automation,
manufacturing
technology and
energy
sustainability
and also
includes
original works
in the

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*Torque
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*intelligent
systems,
manufacturing,
mechanical,
electrical,
aeronautical,
materials,
automobile,
bioenergy and
energy
sustainability.*

*Fluid Power
Circuits and*

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Mac
Controls:
*Fundamentals
and*

*Applications,
Second Edition,
is designed for
a first course
in fluid power
for
undergraduate
engineering
students. After
an introduction*

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*to the design
and function of
components,
students apply
what they've
learned and
consider how
the component
operating
characteristics
interact with
the rest of the
circuit. The*

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Second Edition offers many new worked examples and additional exercises and problems in each chapter. Half of these new problems involve the basic analysis of specific elements, and

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the rest are design-oriented, emphasizing the analysis of system performance.

The envisioned course does not require a controls course as a prerequisite; however, it

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*does lay a
foundation for
understanding
the
extraordinary
productivity
and accuracy
that can be
achieved when
control
engineers and
fluid power
engineers work*

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*as a team on a
fluid power
design problem.*

*A complete
solutions
manual is
available for
qualified
adopting
instructors.*

Patents

2014

International

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Conference on
Mechanical

Engineering and
Automation
(ICMEA2014)

Fundamentals of
Electrical
Drives

Advances in
Mechatronics,
Automation and
Applied
Information

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Mae
*Technologies
Proceedings of
China SAE*

*Congress 2020:
Selected Papers
Selected and
Expanded
Reports from
ICMIC'17*

**Robotics
engineering has
progressed from an
infant industry in**

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**Torque
Calculations Lift
Motor**

**1961 to one
including over 500
robot and allied
firms around the
world in 1989.
During this growth
period, many
robotics books have
been published, so
me of which have
served as industry
standards. Until
recently, the design
of robotics systems**

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Free

has been primarily
the responsibility of
the mechanical
engineer, and their
application in
factories has been
the responsibility of
the manufacturing
engineer. Few
robotics books
address the many
systems issues
facing electronics
engineers or

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**computer
programmers. The
mid-1980s
witnessed a major
change in the
robotics field. The
develop ment of
advanced sensor
systems
(particularly vision),
improvements in the
intelligence area,
and the desire to
integrate groups of**

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robots working together in local work cells or in factory-wide systems have greatly increased the participation of electronics engineers and computer programmers. Further, as robots gain in mobility, they are being used in

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completely new
areas, such as

construction,
firefighting, and
underwater
exploration, and the
need for computers
and smart sensors
has increased.

Fundamentals of
Rabates

Engineering is
aimed at the
practicing electrical

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**Torque
Calculations U/f/**
M/s
**engineer or
computer analyst
who needs to review
the fundamentals of
engineering as
applied to robotics
and to understand
the impact on
system design
caused by
constraints unique
to robotics. Because
there are many good
texts covering**

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**Torque
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Mechanical**
engineering topics,
this book is limited
to an overview of
those topics and the
effects they have on
electrical design and
system programs.

**Design, simulate,
and program
interactive robots**

Key Features

**Design, simulate,
build, and program**

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Motor

**an interactive
autonomous mobile
robot Leverage the
power of ROS,
Gazebo, and Python
to enhance your
robotic skills A
hands-on guide to
creating an
autonomous mobile
robot with the help
of ROS and Python
Book Description
Robot Operating**

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System (ROS) is one of the most popular robotics software frameworks in research and industry. It has various features for implementing different capabilities in a robot without implementing them from scratch. This book starts by showing you the

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Mo

**fundamentals of
ROS so you
understand the
basics of differential
robots. Then, you'll
learn about robot
modeling and how
to design and
simulate it using
ROS. Moving on,
we'll design robot
hardware and
interfacing
actuators. Then,**

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**you'll learn to
configure and
program depth
sensors and LIDARs
using ROS. Finally,
you'll create a GUI
for your robot using
the Qt framework.
By the end of this
tutorial, you'll have a
clear idea of how to
integrate and
assemble everything
into a robot and how**

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**to bundle the
software package.**

What you will learn

**Design a differential
robot from scratch**

**Model a differential
robot using ROS**

**and URDF Simulate
a differential robot**

using ROS and

Gazebo Design

robot hardware

electronics Interface

robot actuators with

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Motor

**embedded boards
Explore the
interfacing of
different 3D depth
cameras in ROS
Implement
autonomous
navigation in
ChefBot Create a
GUI for robot control
Who this book is for
This book is for
those who are
conducting research**

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**Torque
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M**
in mobile robotics
and autonomous
navigation. As well
as the robotics
research domain,
this book is also for
the robot hobbyist
community. You're
expected to have a
basic understanding
of Linux commands
and Python.
This book presents
the select

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proceedings of the
second International
Conference on
Recent Advances in
Mechanical
Engineering (RAME
2020). The topics
covered include
aerodynamics and
fluid mechanics,
automation,
automotive
engineering,
composites,

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**ceramics and
polymers
processing,
computational
mechanics, failure
and fracture
mechanics, friction,
tribology and
surface engineering,
heating and
ventilation, air
conditioning
system, industrial
engineering, IC**

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**engines,
turbomachinery and
alternative fuels,
machinability and
formability of
materials,
mechanisms and
machines,
metrology and
computer-aided
inspection, micro-
and nano-
mechanics,
modelling,**

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**simulation and
optimization,
product design and
development, rapid
manufacturing
technologies and
prototyping, solid
mechanics and
structural
mechanics,
thermodynamics
and heat transfer,
traditional and non-
traditional**

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**machining
processes, vibration
and acoustics. The
book also discusses
various energy-
efficient renewable
and non-renewable
resources and
technologies,
strategies and
technologies for
sustainable
development and
energy &**

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**environmental
interaction. The
book is a valuable
reference for
beginners,
researchers, and
professionals
interested in
sustainable
construction and
allied fields.**

**This book presents
collective works
published in the**

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Torque
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recent Special Issue
(SI) entitled "

Intelligent
Transportation
Systems (ITS)".

These works
address problems of
mobility,
environmental
pollution, and road
safety, as well as
their related
applications. The
presented problems

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are complex and involve a large number of research areas and many advanced technologies, such as communication, sensing, and control, which are used for managing a large amount of information. The applications vary and include fleet

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Management,
driving behavior,
traffic control,
trajectory planning,
connected vehicles,
and energy
consumption
efficiency. Recent
advances in
communication
technologies are
becoming
fundamental for the
development of new**

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Calculations, Life
Motor**

advances in fleet management, traffic control, and connected vehicles. This works collected in this Special Issue propose solution methodologies to address such challenges, analyze the proposed methodologies, and evaluate their performance. This

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Max

**book brings
together a collection
of multidisciplinary
works applied to ITS
applications in a
coherent manner.
Practical Robot
Design
Advanced Vehicle
Control
The Industrial
Electronics
Handbook - Five
Volume Set**

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**Game Playing
Robots**

**Electric Vehicle
Technology
Explained**

**Modern Electric,
Hybrid Electric, and
Fuel Cell Vehicles**

*This book will
show you how to
use your Arduino
to control a
variety of*

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*Torque Calculations Ufl
Mae*

*different robots,
while providing
step-by-step
instructions on
the entire robot
building process.
You'll learn
Arduino basics as
well as the
characteristics of
different types of
motors used in
robotics. You also*

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Torque
discover
Calculations Ufl
controller

Map
*methods and
failsafe methods,
and learn how to
apply them to
your project. The
book starts with
basic robots and
moves into more
complex projects,
including a GPS-
enabled robot, a*

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*robotic lawn
mower, a fighting
bot, and even a
DIY Segway-
clone.*

*Introduction to
the Arduino and
other
components
needed for
robotics Learn
how to build
motor controllers*

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Map

Build bots from simple line-following and bump-sensor bots to more complex robots that can mow your lawn, do battle, or even take you for a ride Please note: the print version of this title is black & white;

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*the eBook is full
color.*

*This volume
presents peer-
reviewed papers
of the First
International
Conference on
Microelectronics,
Communication
Systems,
Machine
Learning, and the*

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*Internet of
Things*
(MCMCI-2020).

*This book
discusses recent
trends in
technology and
advancement in
microelectronics,
nano-electronics,
VLSI design, IC
technologies,
wireless*

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Map
*communications,
optical
communications,
SoC, advanced
instrumentations,
signal
processing,
internet of
things, machine
learning, image
processing, green
energy, hybrid
vehicles, weather*

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*forecasting, cloud
computing,
renewable
energy, CMOS
sensors,
actuators, RFID,
transducers, real-
time embedded
system, sensor
network and
applications, EDA
design tools and
techniques, fuzzy*

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*logic & artificial
intelligence, high-
performance
computer
architecture, AI-
based robotics &
applications,
brain-computer
interface, deep
learning,
advanced
operating
systems, supply*

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chain

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development &
monitoring,
physical systems
design, ICT
applications, e-
farming,
information
security, etc. It
includes original
papers based on
theoretical,
practical,

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*Torque
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*experimental,
simulations,
development,
application,
measurement,
and testing. The
applications and
solutions
discussed in the
book will serve as
good reference
material for
young scholars,*

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*researchers, and
academics.*

*Motor control
technology
continues to play
a vital role in the
initiative to
eliminate or at
least decrease
petroleum
dependency and
greenhouse gas
emissions around*

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the world.

Increased motor efficiency is a crucial aspect of this science in the global transition to clean power use in areas such as industrial applications and home appliances—but

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*particularly in the
design of
vehicles.*

*Summarizes the
evolution of
motor driving
units toward high
efficiency, low
cost, high power
density, and
flexible interface
with other
components AC*

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Map
*Motor Control
and Electric
Vehicle*

*Applications
addresses the
topics mentioned
in its title but
also elaborates
on motor design
perspective, such
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efficiently,
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communicate
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engineering
will play a
very important
role in

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convergence of
computing,

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it also will

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