

Read Online Gnu
Octave Beginner S
Guide Hansen

***Gnu Octave
Beginner S
Guide
Hansen
Jesper
Schmidt***

High Performance
Computing:
Modern Systems

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Guide Hansen,
Jesper Schmidt

and Practices is a
fully

comprehensive
and easily
accessible

treatment of high
performance
computing,

covering
fundamental
concepts and
essential

knowledge while

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Jepper Schmidt

also providing key
skills training.

With this book,
domain scientists
will learn how to
use
supercomputers
as a key tool in
their quest for
new knowledge.
In addition,
practicing
engineers will

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discover how
supercomputers
can employ HPC
systems and
methods to the
design and
simulation of
innovative
products, and
students will
begin their
careers with an
understanding of

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Guide Hansen

possible
directions for
future research
and development
in HPC. Those
who maintain and
administer
commodity
clusters will find
this textbook
provides essential
coverage of not
only what HPC

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Jesper Schmidt

systems do, but
how they are
used. Covers
enabling
technologies,
system
architectures and
operating
systems, parallel
programming
languages and
algorithms,
scientific

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visualization,
Jesper Schmidt,
correctness and
performance
debugging tools
and methods,
GPU accelerators
and big data
problems
Provides
numerous
examples that
explore the basics
of

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Jesper Schmidt

supercomputing,
while also
providing
practical training
in the real use of
high-end
computers Helps
users with
informative and
practical
examples that
build knowledge
and skills through

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Jesper Schmidt
incremental steps
Features sidebars
of background
and context to
present a live
history and
culture of this
unique field
Includes online
resources, such
as recorded
lectures from the
authors' HPC

Read Online Gnu
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courses

Jesper Schmidt
This introduction
to Scientific
Computing
illustrates several
numerical
methods for the
computer solution
of certain classes
of mathematical
problems. The
authors show how
to compute the

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zeros or the
integrals of
continuous
functions, solve
linear systems,
approximate
functions by
polynomials and
construct
accurate
approximations
for the solution of
differential

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equations. To make the presentation concrete, the programming environment Matlab is adopted as a faithful companion. The availability of inexpensive, custom, highly integrated circuits

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Jesper Schmidt
is enabling some very powerful systems that bring together sensors, smart phones, wearables, cloud computing, and other technologies. To design these types of complex systems we are

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Jesper Schmidt
advocating a top-down simulation methodology to identify problems early. This approach enables software development to start prior to expensive chip and hardware development. We call the overall

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Jesper Schmidt
approach virtual
design. This book
explains why
simulation has
become
important for chip
design and
provides an
introduction to
some of the
simulation
methods used.
The audio

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Jesper Schmidt
lifelogging
research project
demonstrates the
virtual design
process in
practice. The
goals of this book
are to: explain
how silicon
design has
become more
closely involved
with system

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Jesper Schmidt
design; show how
virtual design

enables top down
design; explain

the utility of
simulation at
different

abstraction

levels; show how

open source

simulation

software was

used in audio

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lifelogging. The target audience for this book are faculty, engineers, and students who are interested in developing digital devices for Internet of Things (IoT) types of products.

An introductory

Read Online Gnu
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textbook for
people who have
not programmed
before. Covers
basic MATLAB
programming
with emphasis on
modeling and
simulation of
physical systems.
Proceedings of
10th Computer
Science On-line

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Octave Beginner S
Guide Hansen
Jesper Schmidt
For Engineers and
Scientists

MATLAB for
Beginners: A
Gentle Approach:
Revised Edition
MATLAB for
Beginners
Beginner's Guide
: Become a
Proficient Octave
User by Learning
this High-level

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Scientific
Numerical Tool
from the Ground
Up
System

Perspectives and
Design Aspects

***MatLab, Third
Edition is the
only book that
gives a full
introduction to
programming in***

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Octave Beginner S
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MATLAB

***combined with an
explanation of
the software's
powerful
functions,
enabling
engineers to fully
exploit its
extensive
capabilities in
solving
engineering***

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***problems. The
book provides a
systematic, step-
by-step
approach,
building on
concepts
throughout the
text, facilitating
easier learning.
Sections on
common pitfalls
and programming***

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Octave Beginner S
Guide Hansen

**guidelines direct
students towards
best practice.**

**The book is
organized into 14
chapters, starting
with
programming
concepts such as
variables,
assignments,
input/output, and
selection**

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**statements;
moves onto
loops; and then
solves problems
using both the
'programming
concept' and the
'power of
MATLAB' side-by-
side. In-depth
coverage is given
to input/output, a
topic that is**

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***fundamental to
many
engineering
applications.
Vectorized Code
has been made
into its own
chapter, in order
to emphasize the
importance of
using MATLAB
efficiently. There
are also***

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***expanded
examples on low-
level file input
functions,
Graphical User
Interfaces, and
use of MATLAB
Version R2012b;
modified and new
end-of-chapter
exercises;
improved
labeling of plots;***

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**and improved
standards for
variable names
and
documentation.
This book will be
a valuable
resource for
engineers
learning to
program and
model in
MATLAB, as well**

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**as for
undergraduates
in engineering
and science
taking a course
that uses (or
recommends)
MATLAB.**

**Presents
programming
concepts and
MATLAB built-in
functions side-by-**

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Guide Hansen
Jesper Schmidt

***side Systematic,
step-by-step
approach,
building on
concepts
throughout the
book, facilitating
easier learning
Sections on
common pitfalls
and programming
guidelines direct
students towards***

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best practice

A rigorous and

comprehensive

introduction to

numerical

analysis

Numerical

Methods provides

a clear and

concise

exploration of

standard

numerical

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**analysis topics,
as well as**

**nontraditional
ones, including
mathematical
modeling, Monte
Carlo methods,
Markov chains,
and fractals.**

**Filled with
appealing
examples that
will motivate**

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Guide Hansen
Jesper Schmidt

**students, the
textbook**

**considers modern
application areas,
such as**

information

retrieval and

animation, and

classical topics

**from physics and
engineering.**

Exercises use

MATLAB and

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***promote
understanding of
computational
results. The book
gives instructors
the flexibility to
emphasize
different
aspects—design,
analysis, or
computer implem
entation—of
numerical***

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***algorithms,
depending on the
background and
interests of
students.***

***Designed for
upper-division
undergraduates
in mathematics
or computer
science classes,
the textbook
assumes that***

***students have
prior knowledge
of linear algebra
and calculus,
although these
topics are
reviewed in the
text. Short
discussions of the
history of
numerical
methods are
interspersed***

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Guide Hansen
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throughout the chapters. The book also includes polynomial interpolation at Chebyshev points, use of the MATLAB package Chebfun, and a section on the fast Fourier transform.

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Supplementary materials are available online. Clear and concise exposition of standard numerical analysis topics Explores nontraditional topics, such as mathematical modeling and

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**Monte Carlo
methods Covers
modern
applications,
including
information
retrieval and
animation, and
classical
applications from
physics and
engineering
Promotes**

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Octave Beginner S
Guide Hansen

***understanding of
computational
results through
MATLAB
exercises
Provides
flexibility so
instructors can
emphasize
mathematical or
applied/computat
ional aspects of
numerical***

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Jesper Schmidt

***methods or a
combination***

***Includes recent
results on
polynomial***

***interpolation at
Chebyshev points
and use of the
MATLAB package***

***Chebfun Short
discussions of the
history of
numerical***

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Guide Hansen

methods

interspersed

throughout

**Supplementary
materials**

available online

**Get a quick start
to learn,**

**understand, and
apply GNU**

**Octave using a
math- and progra
mming-friendly**

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Guide Hanson
Jesper Schmidt

approach. This book focuses on an end-to-end track to teach mathematical programming, data science, signal processing, and image processing with GNU Octave. GNU Octave by Example starts

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Guide Hansen

***with an
introduction to
GNU Octave, a
free and open-
source
alternative to
MATLAB. Next, it
explains the
processes to
install GNU
Octave on
popular
operating***

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**systems such as
Windows,
Ubuntu,
Raspberry Pi, and
other platforms.
Further, it covers
hands-on
exercises with
GNU Octave
exploring the
basic
functionality and
command line in**

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Octave Beginner S
Guide Hansen

interactive mode.

This is followed

***by covering
matrices and
various***

operations

***including how to
read and analyze
data from various***

sources. Moving

forward, it

introduces

commonly used

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Jesper Schmidt

**programming
constructs in
data**

**visualization. It
explains 2D and
3D data**

**visualization
along with data
analysis. It also
demonstrates the
concepts related
to geometry and
its application**

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***with GNU Octave.
It concludes with
coverage of
signal processing
followed by
image, video, and
audio processing
techniques. After
reading this
book, you will be
able to write your
own programs for
scientific and***

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Octave Beginner S
Guide Hansen
Jesner Schmidt
**numerical
applications.**

What You Will

Learn ●

**Understand the
practical aspects
of GNU Octave
with math and pr
ogramming-
friendly
abstractions ●**

Install GNU

Octave on

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Octave Beginner S
Guide Hansen

**multiple
platforms
including
Windows,
Raspberry Pi, and
Ubuntu ● Work
with GNU Octave
using the GUI,
the command
line, and Jupyter
notebooks ●
Implement 2D
and 3D data**

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Octave Beginner S
Guide Hansen
Jesner Schmidt

**visualization and
analysis with**

**GNU Octave Who
This Book Is For
Software**

**engineers, data
engineers, data
science**

**enthusiasts, and
computer vision
professionals.**

**This book
presents**

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Octave Beginner S
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**computer
programming as
a key method for
solving
mathematical
problems. There
are two versions
of the book, one
for MATLAB and
one for Python.
The book was
inspired by the
Springer book**

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Octave Beginner S
Guide Hansen
Jesper Schmidt

***TCSE 6: A Primer
on Scientific
Programming
with Python (by
Langtangen), but
the style is more
accessible and
concise, in
keeping with the
needs of
engineering
students. The
book outlines the***

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Octave Beginner S
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***shortest possible
path from no
previous
experience with
programming to a
set of skills that
allows the
students to write
simple programs
for solving
common
mathematical
problems with***

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Guide Hansen

**numerical
methods in
engineering and
science courses.
The emphasis is
on generic
algorithms, clean
design of
programs, use of
functions, and
automatic tests
for verification.
A Gentle**

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**Introduction to
Numerical
Simulations with
MATLAB/Octave
Introduction to
GNU Octave
Essential MATLAB
and Octave
Applications of
Image Processing
and Soft
Computing
Systems in**

Page 56/233

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Octave Beginner S
Guide Hansen
Jesper Schmidt

**Agriculture
Numerical
Methods
Guide to Medical
Image Analysis**

This book
constitutes the
refereed
proceedings of
the informatics
and cybernetics
in intelligent
systems section

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of the 10th
Jasper Schmidt
Computer Science

Online

Conference 2021

(CSOC 2021),

held online in

April 2021.

Modern

cybernetics and

computer

engineering

papers in the

scope of

intelligent

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Jesper Schmidt
systems are an
essential part
of actual
research topics.
In this book, a
discussion of
modern
algorithms
approaches
techniques is
held.

This textbook
provides a fast-
track pathway to

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numerical
Jesper Schmidt
implementation
of phase-field
modeling—a
relatively new
paradigm that
has become the
method of choice
for modeling and
simulation of
microstructure
evolution in
materials. It
serves as a

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cookbook for the
phase-field

method by

presenting a

collection of

codes that act

as foundations

and templates

for developing

other models

with more

complexity.

Programming

Phase-Field

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Modeling uses
the
Matlab/Octave
programming
package, simpler
and more compact
than other high-
level
programming
languages,
providing ease
of use to the
widest audience.
Particular

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attention is
devoted to the
computational
efficiency and
clarity during
development of
the codes, which
allows the
reader to easily
make the
connection
between the
mathematical
formulism and

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Jesper Schmidt
the numerical
implementation
of phase-field
models. The
background
materials
provided in each
case study also
provide a forum
for
undergraduate
level modeling-
simulations
courses as part

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Guide Hansen
of their
Jesper Schmidt
curriculum.

This is a short,
focused
introduction to
MATLAB, a
comprehensive
software system
for mathematical
and technical
computing. It
contains concise
explanations of
essential MATLAB

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commands, as
well as easily
understood
instructions for
using MATLAB's
programming
features,
graphical
capabilities,
simulation
models, and rich
desktop
interface.

Written for

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Jesper Schmidt

MATLAB 7, it can
also be used
with earlier
(and later)
versions of
MATLAB. This
book teaches how
to graph
functions, solve
equations,
manipulate
images, and much
more. It
contains

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**explicit
instructions for
using MATLAB's
companion
software,
Simulink, which
allows graphical
models to be
built for
dynamical
systems.**

**MATLAB's new
"publish"
feature is**

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Jesper Schmidt

discussed, which
allows
mathematical
computations to
be combined with
text and
graphics, to
produce
polished,
integrated,
interactive
documents. For
the beginner it
explains

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everything
needed to start
using MATLAB,
while
experienced
users making the
switch to MATLAB
7 from an
earlier version
will also find
much useful
information
here.

Quickly Engages

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Guide Hansen
Jesper Schmidt

in Applying
Algorithmic
Techniques to
Solve Practical
Signal
Processing
Problems With
its active,
hands-on
learning
approach, this
text enables
readers to
master the

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Octave Beginner S
Guide Hansen

underlying
principles of
digital signal
processing and
its many
applications in
industries such
as digital
television,
mobile and
broadband
communications,
and medical/scie
ntific devices.

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Octave Beginner S
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Carefully
developed

Jesper Schmidt
MATLAB® examples
throughout the
text illustrate
the mathematical
concepts and use
of digital
signal
processing
algorithms.

Readers will
develop a deeper
understanding of

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Octave Beginner S
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Jesper Schmidt
how to apply the
algorithms by
manipulating the
codes in the
examples to see
their effect.

Moreover, plenty
of exercises
help to put
knowledge into
practice solving
real-world
signal
processing

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challenges.

Jesper Schmidt
Following an
introductory
chapter, the
text explores:
Sampled signals
and digital
processing
Random signals
Representing
signals and
systems Temporal
and spatial
signal

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Guide Hansen
processing
Jesper Schmidt
Frequency

analysis of
signals Discrete-
time filters and
recursive
filters Each
chapter begins
with chapter
objectives and
an introduction.
A summary at the
end of each
chapter ensures

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that one has
Jasper Schmidt
mastered all the
key concepts and
techniques
before
progressing in
the text.

Lastly,
appendices
listing selected
web resources,
research papers,
and related
textbooks enable

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the

Jesper Schmidt
investigation of

individual

topics in

greater depth.

Upon completion

of this text,

readers will

understand how

to apply key

algorithmic

techniques to

address

practical signal

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processing
problems as well
as develop their
own signal
processing
algorithms.

Moreover, the
text provides a
solid foundation
for evaluating
and applying new
digital
processing
signal

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Jesper Schmidt

techniques as
they are
developed.

A Practical
Introduction to
Programming and
Problem Solving
Physical
Modeling in
MATLAB
MATLAB for
Machine Learning
EZ Guide to
Commands and

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Octave Beginner S
Guide Hansen

Graphics

Jasper Schmidt
Octave/Matlab

Primer and

Applications

Scientific

Computing with

MATLAB and

Octave

The variety and

abundance of

qualitative

characteristics of

agricultural

*products have been
the main reasons
for the development
of different types of
non-destructive
methods (NDTs).
Quality control of
these products is
one of the most
important tasks in
manufacturing
processes. The use*

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*of control and
automation has*

become more

widespread, and

new approaches

provide

opportunities for

production

competition through

new technologies.

Applications of

Image Processing

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and Soft Computing

Systems in

Agriculture

examines

applications of

artificial

intelligence in

agriculture and the

main uses of shape

analysis on

agricultural

products such as

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*relationships
between form and
genetics, adaptation,
product*

*characteristics, and
product sorting.*

*Additionally, it
provides insights
developed through
computer vision
techniques.*

Highlighting such

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*topics as deep
learning,
agribusiness, and
augmented reality, it
is designed for
academicians,
researchers,
agricultural
practitioners, and
industry
professionals.*

MATLAB® in

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*Quality Assurance
Sciences fills a gap
in the highly topical
field of quality
assurance (QA). It
is a compact guide
for students,
engineers, and
scientists in this
field. It concentrates
on MATLAB®
fundamentals with*

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*examples of
application to a
wide range of
current problems
from general, nano
and bio-technology,
and statistical
control, to medicine
and industrial
management.*

*Examples cover
both the school and*

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advanced level;

Jesper Schmidt

comprising

calculations of total

quality

management, six

sigma, time series,

process

improvement,

metrology, quality

control, human

factors in quality

assurance,

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*measurement and
testing techniques,
quality project and
function
management, and
customer
satisfaction. This
book covers key
topics, including:
the basics of
software with
examples; graphics*

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and representations;
Jesper Schmidt
numerical

*computation, scripts
and functions for
QA calculations;
ODE and PDEPE
solvers applied to
QA problems; curve
fitting and time
series tool interfaces
in calculations of
quality; and*

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statistics

Jesper Schmidt
*calculations applied
to quality testing.*

Includes

MATLAB®

*fundamentals,
matrices, arrays,
general graphics
and specialized plots
in quality assurance
problems, script
files, ordinary and*

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Octave Beginner S
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*partial differential
equations Gives
calculation of six
sigma, total quality
management, time
series forecasting,
reliability, process
improvement,
metrology, quality
control and
assurance,
measurement and*

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testing techniques

Provides tools for

graphical

presentation, basic

and special statistics

and testing,

ordinary and partial

differential solvers,

and fitting tools

This book is written

for beginners and

students who wish

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Octave Beginner S
Guide Hansen
Jesper Schmidt

to learn MATLAB.

*One of the
objectives of writing
this book is to
introduce MATLAB
to students in high
schools. The
material presented
is very easy and
simple to
understand --
written in a gentle*

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*manner. The topics
covered in the book
include arithmetic
operations,
variables,
mathematical
functions, complex
numbers, vectors,
matrices,
programming,
graphs, solving
equations, and an*

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*introduction to
calculus. In
addition, the
MATLAB Symbolic
Math Toolbox is
emphasized in this
book. There are also
over 230 exercises
at the ends of
chapters for
students to practice.
Detailed solutions to*

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*all the exercises are
provided in the
second half of the
book. The author
has been using
MATLAB for the
past fifteen years
and is the author of
the best selling book
"MATLAB Guide to
Finite Elements".*

This description

Read Online Gnu
Octave Beginner S
Guide Hansen
applies to the
Jesper Schmidt
Revised Edition.

*Extract patterns and
knowledge from
your data in easy
way using
MATLAB About
This Book Get your
first steps into
machine learning
with the help of this
easy-to-follow guide*

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Octave Beginner S
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*Learn regression,
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clustering,*

classification,

predictive analytics,

artificial neural

networks and more

with MATLAB

Understand how

your data works and

identify hidden

layers in the data

with the power of

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machine learning.

Who This Book Is

For This book is for

data analysts, data

scientists, students,

or anyone who is

looking to get

started with

machine learning

and want to build

efficient data

processing and

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*predicting
applications. A
mathematical and
statistical
background will
really help in
following this book
well. What You Will
Learn Learn the
introductory
concepts of machine
learning. Discover*

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*different ways to
transform data
using SAS XPORT,
import and export
tools, Explore the
different types of
regression
techniques such as
simple & multiple
linear regression,
ordinary least
squares estimation,*

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*correlations and
how to apply them
to your data.*

*Discover the basics
of classification
methods and how to
implement Naive
Bayes algorithm
and Decision Trees
in the Matlab
environment.*

Uncover how to use

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*clustering methods
like hierarchical
clustering to
grouping data using
the similarity
measures. Know
how to perform data
fitting, pattern
recognition, and
clustering analysis
with the help of
MATLAB Neural*

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Jesper Schmidt

***Network Toolbox.
Learn feature
selection and
extraction for
dimensionality
reduction leading to
improved
performance. In
Detail MATLAB is
the language of
choice for many
researchers and***

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*mathematics experts
Jesper Schmidt
for machine*

*learning. This book
will help you build a
foundation in
machine learning
using MATLAB for
beginners. You'll
start by getting your
system ready with t
he MATLAB
environment for*

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*machine learning
and you'll see how
to easily interact
with the Matlab
workspace. We'll
then move on to
data cleansing,
mining and
analyzing various
data types in
machine learning
and you'll see how*

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*to display data
values on a plot.*

*Next, you'll get to
know about the
different types of
regression
techniques and how
to apply them to
your data using the
MATLAB
functions. You'll
understand the*

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*basic concepts of
neural networks and
perform data fitting,
pattern recognition,
and clustering
analysis. Finally,
you'll explore
feature selection
and extraction
techniques for
dimensionality
reduction for*

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performance

improvement. At the

end of the book, you

will learn to put it

all together into real-

world cases

covering major

machine learning

algorithms and be

comfortable in

performing machine

learning with

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Jesper Schmidt

MATLAB. Style and approach The book takes a very comprehensive approach to enhance your understanding of machine learning using MATLAB. Sufficient real-world examples and use cases are

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*included in the book
to help you grasp
the concepts quickly
and apply them
easily in your day-to-
day work.*

*GNU Octave
Sage Beginner's
Guide*

*A Gentle Approach
Programming for
Computations -*

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Octave Beginner S
Guide Hansen
Jesper Schmidt

***MATLAB/Octave
Tools for IoT***

Systems

Methods and

Algorithms

*This is a practical,
step-by-step guide
that will help you to
quickly become a
proficient Octave
user. The book is
packed with clear*

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examples,

Jesper Schmidt

screenshots, and

code to carry out

your data analysis

without any

problems. This book

is intended for

anyone interested in

scientific computing

and data analysis.

The reader should

have a good level of

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*mathematics and a
basic understanding
of programming will
be useful, although it
is not a prerequisite.*

*"MATLAB is a high-
level language and
interactive
environment for
numerical
computation,
visualization, and*

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*programming. Using
MATLAB, you can
analyze data,
develop algorithms,
and create models
and applications.*

*The language, tools,
and built-in math
functions enable you
to explore multiple
approaches and
reach a solution*

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Octave Beginner S
Guide Hansen

*faster than with
Jesper Schmidt
spreadsheets or
traditional
programming
languages"--*

*For many
engineering tasks
extensive
computations or
visualizations are
required. The well
established Matlab*

Read Online Gnu
Octave Beginner S
Guide Hansen

*and Octave (a very
similar open source*

software) are

excellent tools for

*modeling, computing
and visualization.*

This book will help

the reader to acquire

basic knowledge and

elementary

programming skills

with Octave/Matlab.

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Octave Beginner S
Guide Hansen

*Basic data and
Jesper Schmidt
programming*

*structures are
presented and for
the most often used
commands
illustrative code
samples are
provided. The
selection of the
presented commands
is guided by the*

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Guide Hansen

*typical needs of
engineers. With
these skills many
and more difficult
problems can be
solved successfully.*

*It is shown how
basic statistical
questions can be
answered and how
results are visualized
using appropriate*

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Jesper Schmidt
*types of graphical
representation. A
selection of typical,
independent
engineering
problems is
presented, together
with algorithms to
solve these
problems. Special
attention is given to
the methods of linear*

Read Online Gnu
Octave Beginner S
Guide Hansen

and nonlinear

*Jesper Schmidt
regression. The high
level tool*

*Matlab/Octave is
used to develop
computational code
for micro
controllers. The
codes and data files
for the book are
available on Github
and on Springer*

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Link. The Content

Introduction to

Octave/MATLAB

Elementary Statistics

With

Octave/MATLAB

Engineering

Applications The

Target Groups

Students in electrical

and mechanical

engineering and

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*engineering fields in
general Working*

engineers The

Author Dr. Andreas

Stahel is professor

for Mathematics at

the Bern University

of Applied Sciences

(BFH). He

graduated with a

Ph.D. in

Mathematics from

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*the University of
Zürich in 1987, with
a minor degree in
Physics. He was
teaching*

*Mathematics in the
Bachelor program at
the BFH for*

*Microtechnology
and Medical*

*Technology and in
the Master program*

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Jesper Schmidt

*for Biomedical
Engineering, a joint
program of the
University of Bern
and the BFH. He
headed and
contributed to many
industrial projects,
with local industry
and/or with
engineering
colleagues.*

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MATLAB is one of the most widely used tools in the field of engineering today. Its broad appeal lies in its interactive environment with hundreds of built-in functions. This book is designed to get you up and running in just a few hours.

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Jesper Schmidt

*A Fast and Practical
Approach to*

Learning GNU

Octave

NumPy Beginner's

Guide (Second

Edition)

A MATLAB Exercise

Book

A Guide to MATLAB

Visual Media

Processing Using

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Octave Beginner's
Guide Hansen
Jesper Schmidt
*Matlab Beginner's
Guide*

*An Introduction to
Reservoir Simulation
Using
MATLAB/GNU
Octave*

**GNU
Octave Beginner's
Guide ; Become a
Proficient Octave User
by Learning this High-
level Scientific**

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Octave Beginner S
Guide Hansen
Jesper Schmidt

**Numerical Tool from
the Ground UpPackt
Pub Limited**

**This book is written
for beginners and
students who wish to
learn MATLAB. One
of the objectives of
writing this book is to
introduce MATLAB to
students in high
schools. The material
presented is very easy
and simple to**

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Jesper Schmidt

understand - written in a gentle manner. The topics covered in the book include arithmetic operations, variables, mathematical functions, complex numbers, vectors, matrices, programming, graphs, solving equations, and an introduction to calculus. In addition,

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Jesper Schmidt

**the MATLAB
Symbolic Math**

**Toolbox is emphasized
in this book. There are
also over 230 exercises
at the ends of chapters
for students to
practice. Detailed
solutions to all the
exercises are provided
in the second half of
the book. The author
has been using
MATLAB for the past**

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Jeppia Schmidt

**fifteen years and is the
author of the best
selling book**

**"MATLAB Guide to
Finite Elements." For
the paperback edition,
visit Amazon.com.**

**This description
applies to the Revised
Edition.**

**This comprehensive
guide provides a
uniquely practical,
application-focused**

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**introduction to
medical image
analysis. This fully
updated new edition
has been enhanced
with material on the
latest developments in
the field, whilst
retaining the original
focus on segmentation,
classification and
registration. Topics
and features: presents
learning objectives,**

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**exercises and
concluding remarks in
each chapter;
describes a range of
common imaging
techniques,
reconstruction
techniques and image
artifacts, and discusses
the archival and
transfer of images;
reviews an expanded
selection of techniques
for image**

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**enhancement, feature
detection, feature
generation,
segmentation,
registration, and
validation; examines
analysis methods in
view of image-based
guidance in the
operating room
(NEW); discusses the
use of deep
convolutional
networks for**

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**segmentation and
labeling tasks (NEW);
includes appendices on
Markov random field
optimization,
variational calculus
and principal
component analysis.
Today, scientific
computing and data
analysis play an
integral part in most
scientific disciplines
ranging from**

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**mathematics and
biology to imaging
processing and
finance. With GNU
Octave you have a
highly flexible tool that
can solve a vast
number of such
different problems as
complex statistical
analysis and
dynamical system
studies. The GNU
Octave Beginner's**

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Guide gives you an introduction that enables you to solve and analyze complicated numerical problems. The book is based on numerous concrete examples and at the end of each chapter you will find exercises to test your knowledge. It's easy to learn GNU Octave,

with the GNU Octave

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Guide Hansen
Jesper Schmidt

**Beginner's Guide to
hand. Using real-world
examples the GNU
Octave Beginner's
Guide will take you
through the most
important aspects of
GNU Octave. This
practical guide takes
you from the basics
where you are
introduced to the
interpreter to a more
advanced level where**

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**you will learn how to
build your own
specialized and highly
optimized GNU
Octave toolbox
package. The book
starts by introducing
you to work variables
like vectors and
matrices,
demonstrating how to
perform simple
arithmetic operations
on these objects before**

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**explaining how to use
some of the simple
functionality that
comes with GNU
Octave, including
plotting. It then goes
on to show you how to
write new functionality
into GNU Octave and
how to make a toolbox
package to solve your
specific problem.
Finally, it
demonstrates how to**

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**optimize your code
and link GNU Octave
with C and C++ code
enabling you to solve
even the most
computationally
demanding tasks.**

**After reading GNU
Octave Beginner's
Guide you will be able
to use and tailor GNU
Octave to solve most
numerical problems
and perform**

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Guide Hansen
Jesper Schmidt
**complicated data
analysis with ease.**

**Introduction to Octave
GNU Octave by**

Example

**Essential MATLAB
for Scientists and
Engineers**

**Wireless Transceiver
Circuits**

**Octave and MATLAB
for Engineering
Applications**

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FLAME 2018

Josper Schmidt
Annotation Your
work demands
results, and
you don't have
time for
tedious,
repetitive
mathematical
tasks. Sage is
a free, open-
source software
package that

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automates
symbolic and
numerical
calculations
with the power
of the Python
programming
language, so
you can focus
on the
analytical and
creative
aspects of your

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work or
studies. Sage
Beginner's
Guide shows you
how to do
calculations
with Sage. Each
concept is
illustrated
with a complete
example that
you can use as
a starting

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Jesper Schmidt

point for your own work. You will learn how to use many of the functions that are built in to Sage, and how to use Python to write sophisticated programs that utilize the power of Sage.

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This book starts by showing you how to download and install Sage, and introduces the command-line interface and the graphical notebook interface. It also includes

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an introduction to Python so you can start programming in Sage. Every major concept is illustrated with a practical example. After learning the fundamentals of variables and

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Jasper Schmidt
functions in
Sage, you will
learn how to
symbolically
simplify
expressions,
solve
equations,
perform
integrals and
derivatives,
and manipulate
vectors and

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matrices. You
will learn how

Sage can
produce
numerous kinds
of plots and
graphics. The
book will
demonstrate
numerical
methods in
Sage, and
explain how to

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use object-
oriented

programming to
improve your
code. Sage

Beginner's

Guide will give
you the tools
you need to

unlock the full
potential of
Sage for

simplifying and

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automating
mathematical
computing.
Effectively use
Sage to
eliminate
tedious
algebra, speed
up numerical
calculations,
implement
algorithms and
data

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structures, and illustrate your work with publication-quality plots and graphics.

Written in a friendly, Beginner's Guide format, showing the user how to use the digital

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Guide Hansen
Jesper Schmidt
media aspects
of Matlab

(image, video,
sound) in a

practical,
tutorial-based
style. This is

great for
novice

programmers in
any language
who would like
to use Matlab

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as a tool for
their image and
video
processing
needs, and also
comes in handy
for
photographers
or video
editors with
even less
programming
experience

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wanting to find
an all-in-one
tool for their
tasks.

A practical
guide to
problem solving
using MATLAB.
Designed to
complement a
taught course
introducing
MATLAB but

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ideally suited
for any
beginner. This
book provides a
brief tour of
some of the
tasks that
MATLAB is
perfectly
suited to
instead of
focusing on any
particular

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topic.

Jasper Schmidt
Providing
instruction,
guidance and a
large supply of
exercises, this
book is meant
to stimulate
problem-solving
skills rather
than provide an
in-depth
knowledge of

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Guide Hansen
Jesper Schmidt
the MATLAB
language.

Familiarize
yourself with
Octave using
this concise,
practical
tutorial that
is focused on
writing code to
learn concepts.
Starting from
the basics,

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this book
Jesper Schmidt
covers array-

based

computing,

plotting, and

working with

files in

Octave, which

can run MATLAB

files without

modification.

Introduction to

Octave is

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useful for
industry
engineers,
researchers,
and students
who are looking
for open-source
solutions for
numerical
computation. In
this book you
will learn by
doing, avoiding

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technical
jargon, which
makes the
concepts easy
to learn. First
you'll see how
to run basic
calculations,
absorbing
technical
complexities
incrementally
as you progress

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toward advanced topics.

Throughout, the language is kept simple to ensure that readers at all levels can grasp the concepts. What You'll Learn Apply sample code to your

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engineering or
science
problems Work
with Octave
arrays,
functions, and
loops Use
Octave's
plotting
functions for
data
visualization
Solve numerical

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computing and
computational
engineering
problems with
Octave Who This
Book Is For
Engineers,
scientists,
researchers,
and students
who are new to
Octave. Some
prior

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programming
experience

would be
helpful but not
required.

A Quick
Introduction
for Scientists
and Engineers

NumPy:
Beginner's
Guide

Proceedings of

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the 4th

Computer
Jesper Schmidt

Science On-line
Conference 2015
(CSOC2015), Vol

2: Intelligent

Systems in

Cybernetics and

Automation

Theory

Advances in Int

erdisciplinary

Engineering

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Getting Started
with MATLAB 7

Design,
Analysis, and
Computer
Implementation
of Algorithms

*Based on a teach-
yourself approach,
the fundamentals
of MATLAB are
illustrated
throughout with*

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*many examples
from a number of
different scientific
and engineering
areas, such as
simulation,
population
modelling, and
numerical
methods, as well as
from business and
everyday life.
Some of the
examples draw on*

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first-year university level maths, but these are self-contained so that their omission will not detract from learning the principles of using MATLAB. This completely revised new edition is based on the latest version of MATLAB. New chapters

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*cover handle
graphics, graphical
user interfaces
(GUIs), structures
and cell arrays, and
importing/exportin
g data. The chapter
on numerical
methods now
includes a general
GUI-driver ODE
solver. * Maintains
the easy informal
style of the first*

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Guide Hansen
Jasper Schmidt
edition * Teaches
the basic principles
of scientific
programming with
MATLAB as the
vehicle * Covers
the latest version
of MATLAB

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Programming
Languages in a
Single Volume
Widely used by
scientists and

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*engineers, well-established
MATLAB® and
open-source
Octave are similar
software programs
providing excellent
capabilities for
data analysis,
visualization, and
more. By means of
straightforward
explanations and
examples from*

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*different areas in
mathematics,
engineering,
finance, and
physics, Essential
MATLAB and
Octave explains
how MATLAB and
Octave are
powerful tools
applicable to a
variety of
problems. This text
provides an*

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introduction that reveals basic structures and syntax, demonstrates the use of functions and procedures, outlines availability in various platforms, and highlights the most important elements for both programs. Effectively

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*Implement Models
and Prototypes
Using
Computational
Models This text
requires no prior
knowledge. Self-
contained, it allows
the reader to use
the material
whenever needed
rather than follow a
particular order.
Compatible with*

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*both languages,
the book material
incorporates
commands and
structures that
allow the reader to
gain a greater
awareness of
MATLAB and
Octave, write their
own code, and
implement their
scripts and
programs within a*

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variety of applicable fields. It is always made clear when particular examples apply only to MATLAB or only to Octave, allowing the book to be used flexibly depending on readers' requirements. Includes brief,

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simple code that works in both MATLAB and Octave Provides exercise sections at the end of each chapter Introduces framed examples and discussions with a scientific twist Exercises are provided at the end of each chapter Essential MATLAB

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and Octave offers an introductory course in MATLAB and Octave programming and is an authoritative resource for students in physics, mathematics, statistics, engineering, and any other subjects that require the

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*use of computers
to solve numerical
problems.*

*In today's world of
science and
technology, it's all
about speed and
flexibility. When it
comes to scientific
computing, NumPy
tops the list.*

*NumPy will give
you both speed
and high*

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productivity. This book will walk you through NumPy with clear, step-by-step examples and just the right amount of theory. The book focuses on the fundamentals of NumPy, including array objects, functions, and matrices, each of

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*them explained
with practical
examples. You will
then learn about
different NumPy
modules while
performing
mathematical
operations such as
calculating the
Fourier transform,
finding the inverse
of a matrix, and
determining*

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*eigenvalues,
among many
others. This book is
a one-stop solution
to knowing the ins
and outs of the
vast NumPy library,
empowering you to
use its wide range
of mathematical
features to build
efficient, high-
speed programs.
This is the second*

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Octave Beginner S
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*edition of the book
titled, GNU OCTAVE
FOR BEGINNERS. A
number of
enhancements
have been made:
some of the
subjects are
explained in more
details, additional
sections are added,
and exercise
problems and
answers are added*

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*along with the
programs used to
answer the
problems. The total
number of pages
are nearly 40%
increased.*

*Informatics and
Cybernetics in
Intelligent Systems*

*For Beginners and
Experienced Users
User Guide for the*

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Jesper Schmitt

MATLAB Reservoir
Simulation Toolbox
(MRST)

Matlab

Modern Systems
and Practices

***This book
presents select
proceedings of
the International
Conference on
Future Learning
Aspects of***

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Jesper Schmidt

***Mechanical
Engineering
(FLAME 2018).***

***The book
discusses
interdisciplinary
areas such as
automobile
engineering,
mechatronics,
applied and
structural***

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***mechanics, bio-
mechanics,
biomedical
instrumentation,
ergonomics,
biodynamic
modeling,
nuclear
engineering,
agriculture
engineering, and
farm***

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machineries. The contents of the book will benefit both researchers and professionals. This book provides a self-contained introduction to the simulation of flow and

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***transport in
porous media,
written by a
developer of
numerical
methods. The
reader will learn
how to implement
reservoir
simulation
models and
computational***

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***algorithms in a
robust and
efficient manner.
The book
contains a large
number of
numerical
examples, all
fully equipped
with online code
and data,
allowing the***

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***reader to
reproduce
results, and use
them as a
starting point for
their own work.
All of the
examples in the
book are based
on the MATLAB
Reservoir
Simulation***

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***Toolbox (MRST),
an open-source
toolbox popular
popularity in both
academic
institutions and
the petroleum
industry. The
book can also be
seen as a user
guide to the
MRST software. It***

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***will prove
invaluable for
researchers,
professionals
and advanced
students using
reservoir
simulation
methods. This
title is also
available as Open
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The book is
written in
beginner's guide
style with each
aspect of NumPy
demonstrated
with real world
examples and
required
screenshots.If
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***programmer,
scientist, or
engineer who has
basic Python
knowledge and
would like to be
able to do
numerical
computations
with Python, this
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No prior***

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***knowledge of
NumPy is
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with a complete
walkthrough right
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***foundational
groundwork
required to
outlining all the
concepts,
techniques and
tools required to
understand Data
Science. Data
Science is an
umbrella term for
the non-***

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***traditional
techniques and
technologies that
are required to
collect,
aggregate,
process, and gain
insights from
massive
datasets. This
book offers all
the processes,***

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***methodologies,
various steps like
data acquisition,
pre-process,
mining,
prediction, and
visualization
tools for
extracting
insights from
vast amounts of
data by the use of***

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***various scientific
methods,
algorithms, and
processes***

***Readers will
learn the steps
necessary to
create the
application with
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Python, R,
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book provides a
stepwise
approach to
building
solutions to data
science
applications right
from
understanding
the
fundamentals,***

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***performing data
analytics to
writing source
code. All the
concepts are
discussed in
simple English to
help the
community to
become Data
Scientist without
much pre-***

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knowledge.

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which includes
Fundamentals,
Methodology and
Tools. Focussed
approach for
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practice various
Data Science***

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practice.***

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emphasis is laid
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in selected fields
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freshman and
sophomore level
linear algebra and
calculus students.

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transceiver
systems require

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diversified design aspects as various radio and sensor applications have emerged. Choosing the right architecture and understanding interference and linearity issues are important for

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multi-standard
cellular
transceivers and
software-defined
radios. A
millimeter-wave
complementary
metal-oxide-semi
conductor (CMOS)
transceiver
design for multi-
Gb/s data
transmission is

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another
challenging area.

Energy-efficient
short-range
radios for body
area networks
and sensor
networks have
recently received
great attention.
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for modern

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connectivity

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transmitters,

including

frequency

synthesizers and
digital-intensive

phase modulators

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reference for
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area of wireless
systems and
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This book is an
expansion of the
previous book,
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Primer for
Beginners. This
book inherits the

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first two chapters
of the latter but
enhanced with
additional details
and two more
chapters, one on
numerical
methods and
another on
application of
Octave/Matlab to
numerous chores
and games. The

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book is applicable
to both Octave

and Matlab users.

Added also are
exercise

problems and
answers showing
how to use

Octave and
Matlab to solve
the problems. The
source programs
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Numerical
methods
introduced in this
book are essence
of numerical
analysis. Although
brief and mostly

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elementary, it also includes numerical solutions of ODE and PDE. The last chapter shows how to apply Octave/Matlab to both business and fun projects, including mortgage payment finder,

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dice game,
Sudoku solution
and plotting of
fractals. More
detail of the book
is available at
http:

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