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*Space has always  
been intriguing  
people's  
imagination.  
However, space  
flight has only been*

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*feasible over the last  
60 years. The  
collective effort of  
distinguished  
international  
researchers, within  
the field of space  
flight, has been  
incorporated into  
this book suitable to  
the broader  
audience. The book  
has been edited by*

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*Prof. George  
Dekoulis, Aerospace  
Engineering Institute  
(AEI), Cyprus, an  
expert on the state-  
of-the-art  
implementations of  
reconfigurable  
space physics  
systems. The book  
consists of six  
sections, namely,  
"Introduction,"*

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*"Spacecraft  
Simulators,"*

*"Spacecraft  
Navigation,"*

*"Spacecraft  
Propulsion,"*

*"Suborbital Flight,"  
and "Deep-Space*

*Flight." We hope  
that this book will be*

*beneficial for*

*professionals,*

*researchers, and*

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*academicians and  
inspires the younger  
generations into  
pursuing relevant  
academic studies  
and professional  
careers within the  
space industry.*

*This Edited Volume  
gathers a selection  
of refereed and  
revised papers  
originally presented*

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*at the Third  
International  
Symposium on  
Signal Processing  
and Intelligent  
Recognition  
Systems (SIRS'17),  
held on September  
13–16, 2017 in  
Manipal, India. The  
papers offer  
stimulating insights  
into biometrics,*

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*digital watermarking,  
recognition systems,  
image and video  
processing, signal  
and speech  
processing, pattern  
recognition, machine  
learning and  
knowledge-based  
systems. Taken  
together, they offer a  
valuable resource  
for all researchers*

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*and scientists engaged in the various fields of signal processing and related areas. Frugal innovation is a way that companies can create high-quality products with limited resources. Once the preserve of firms in poor markets,*

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*Western companies are now seeking ways to appeal to cost-conscious and environmentally-aware consumers at home. With an estimated trillion-dollar global market for frugal products, and with potentially huge cost savings to be gained, frugal*

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*innovation is revolutionizing business and reshaping management thinking. This book explains the principles, perspectives and techniques behind frugal innovation, enabling managers to profit from the*

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*great changes  
ahead. The book  
explains: How to  
achieve mass  
customization, using  
low-cost robotics,  
inexpensive product  
design and virtual  
prototyping  
software. How  
consumers and  
other external  
partners can help*

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*develop products  
How to implement  
sustainable  
practices, such as  
the production of  
waste-free products  
How to change the  
corporate culture to  
become more frugal  
Learn the Raspberry  
Pi 3 from the  
experts! Raspberry  
Pi User Guide, 4th*

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*Edition is the  
"unofficial official"  
guide to everything  
Raspberry Pi 3.  
Written by the Pi's  
creator and a  
leading Pi guru, this  
book goes straight  
to the source to  
bring you the  
ultimate Raspberry  
Pi 3 manual. This  
new fourth edition*

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*has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and*

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*then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into whatever you want it*

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*to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire*

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*industry of add-ons,  
parts, hacks, ideas,  
and inventions. The*

*movement is*

*growing, and*

*pushing the*

*boundaries of*

*possibility along with*

*it—are you ready to*

*be a part of it? This*

*book is your ideal*

*companion for*

*claiming your piece*

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*Weather Balloon  
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*of the Pi. Get all set  
up with software,  
and connect to other  
devices Understand  
Linux System Admin  
nomenclature and  
conventions Write  
your own programs  
using Python and  
Scratch Extend the  
Pi's capabilities with  
add-ons like Wi-Fi  
dongles, a touch*

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*screen, and more  
The credit-card  
sized Raspberry Pi  
has become a  
global phenomenon.  
Created by the  
Raspberry Pi  
Foundation to get  
kids interested in  
programming, this  
tiny computer kick-  
started a movement  
of tinkerers, thinkers,*

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experimenters, and  
inventors. Where will  
your Raspberry Pi 3  
take you? The  
Raspberry Pi User  
Guide, 3rd Edition is  
your ultimate  
roadmap to  
discovery.

Profit from Science  
Charlotte's Web  
Code a Space  
Adventure Game!

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*Solving Business  
Problems using  
Data, Math, and the  
Scientific Process  
Cosmic Rays and  
Particle Physics  
Get Started with  
MicroPython on  
Raspberry Pi Pico*

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of the Year (2013)\*\***

**\*\*Time Magazine 10**

**Top Nonfiction Books**

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*of 2013\*\* \*\*The New  
Republic Best Books  
of 2013\*\* In this  
heart-lifting  
chronicle, Richard  
Holmes, author of the  
best-selling The Age  
of Wonder, follows  
the pioneer generation  
of balloon aeronauts,  
the daring and  
enigmatic men and  
women who risked*

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*their lives to take to  
the air (or fall into  
the sky). Why they did  
it, what their  
contemporaries  
thought of them, and  
how their flights  
revealed the secrets of  
our planet is a  
compelling adventure  
that only Holmes  
could tell. His  
accounts of the early*

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*Ys journal*  
***Anglo-French balloon rivalries, the crazy firework flights of the beautiful Sophie Blanchard, the long-distance voyages of the American entrepreneur John Wise and French photographer Felix Nadar are dramatic and exhilarating.***

***Holmes documents as***

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*well the balloons used  
to observe the horrors*

*of modern battle*

*during the Civil War*

*(including a flight*

*taken by George*

*Armstrong Custer);*

*the legendary tale of*

*at least sixty-seven*

*manned balloons that*

*escaped from Paris*

*(the first successful*

*civilian airlift in*

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*history) during the  
Prussian siege of  
1870-71; the high-  
altitude exploits of  
James Glaisher (who  
rose) seven miles  
above the earth  
without oxygen,  
helping to establish  
the new science of  
meteorology); and  
how Mary Shelley,  
Edgar Allan Poe, and*

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*Jules Verne felt the imaginative impact of flight and allowed it to soar in their work. A seamless fusion of history, art, science, biography, and the metaphysics of flights, Falling Upwards explores the interplay between technology and imagination. And*

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*through the strange  
allure of these great  
balloonists, it offers a  
masterly portrait of  
human endeavor,  
recklessness, and  
vision. (With 24 pages  
of color illustrations,  
and black-and-white  
illustrations  
throughout.)*

*As an incredibly  
cheap, credit-card*

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*sized computer, the  
Raspberry Pi is  
breaking down  
barriers by  
encouraging people of  
all ages to experiment  
with code and build  
new systems and  
objects; and this book  
provides readers with  
inspiring and  
insightful examples to  
explore and build*

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Ys journal

*upon. Written for  
intermediate to  
seasoned Raspberry Pi  
users, this book  
explores four projects  
from around the  
world, explained by  
their makers. These  
projects cover five  
major categories in  
the digital maker  
space: music, light,  
games, home*

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*automation, and the  
Internet of Things.*

*In this long-awaited  
autobiography,  
Kittinger joins author  
Craig Ryan to  
document an  
astonishing career  
exploring  
aeronautical feats  
and propeling  
Americans into space  
using the worlds*

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*oldest flying  
machinethe balloon.*

*Cambridge English  
Worldwide offers an  
exciting new approach  
for students from ten  
to sixteen.*

*Frugal Innovation  
Adventures in  
Raspberry Pi  
Technology and  
Applications of  
Exploration Balloons*

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*Floating in the  
Stratosphere and the  
Atmospheres of Other  
Planets*

*Come Up and Get Me  
Falling Upwards*

*Advances in Signal  
Processing and  
Intelligent*

*Recognition Systems*

Coding for kids is cool  
with Raspberry Pi and  
this elementary guide

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Even if your kids don't have an ounce of computer geek in them, they can learn to code with Raspberry Pi and this wonderful book. Written for 11- to 15-year-olds and assuming no prior computing knowledge, this book uses the wildly successful, low-cost, credit-card-sized Raspberry Pi

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computer to explain fundamental computing concepts. Young people will enjoy going through the book's nine fun projects while they learn basic programming and system administration skills, starting with the very basics of how to plug in the board and turn it on. Each project

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includes a lively and informative video to reinforce the lessons. It's perfect for young, eager self-learners—your kids can jump in, set up their Raspberry Pi, and go through the lessons on their own. Written by Carrie Anne Philbin, a high school teacher of computing who advises the U.K.

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government on the  
revised ICT

Curriculum Teaches  
11- to 15-year-olds  
programming and  
system administration  
skills using Raspberry  
Pi Features 9 fun  
projects accompanied  
by lively and helpful  
videos Raspberry Pi is  
a \$35/£25 credit-card-  
sized computer  
created by the non-

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profit Raspberry Pi  
Foundation; over a  
million have been sold  
Help your children  
have fun and learn  
computing skills at the  
same time with  
Adventures in  
Raspberry Pi.

The use of infrasound  
to monitor the  
atmosphere has, like  
infrasound itself, gone  
largely unheard of

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through the years. But it has many applications, and it is about time that a book is being devoted to this fascinating subject. Our own involvement with infrasound occurred as graduate students of Prof. William Donn, who had established an infrasound array at the Lamont-Doherty

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Geological  
Observatory (now the  
Lamont-Doherty Earth  
Observatory) of  
Columbia University. It  
was a natural  
outgrowth of another  
major activity at  
Lamont, using seismic  
waves to explore the  
Earth's interior. Both  
the atmosphere and  
the solid Earth feature  
velocity (seismic or

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acoustic) gradients in the vertical which act to refract the respective waves. The refraction in turn allows one to calculate the respective background structure in these mediums, indirectly exploring locations that are hard to observe otherwise. Monitoring these signals also allows one

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to discover various phenomena, both natural and man-made (some of which have military applications). Processing is a free, beginner-friendly programming language designed to help non-programmers create interactive art with code. The SparkFun Guide to Processing, the first in

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Electronics series, will show you how to craft digital artwork and even combine that artwork with hardware so that it reacts to the world around you.

Start with the basics of programming and animation as you draw colorful shapes and make them bounce around the screen.

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Then move on to a series of hands-on, step-by-step projects that will show you how to:

- Make detailed pixel art and scale it to epic proportions
- Write a maze game and build a MaKey MaKey controller with fruit buttons
- Play, record, and sample audio to create your own soundboard

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–Fetch weather data  
from the Web and

build a custom  
weather dashboard

–Create visualizations  
that change based on  
sound, light, and  
temperature readings

With a little  
imagination and  
Processing as your  
paintbrush, you'll be  
on your way to coding  
your own gallery of

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digital art in no time!  
Put on your artist's  
hat, and begin your  
DIY journey by  
learning some basic  
programming and  
making your first  
masterpiece with The  
SparkFun Guide to  
Processing. The code  
in this book is  
compatible with  
Processing 2 and  
Processing 3.

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Learn Raspberry Pi Programming with Python will show you how to program your nifty new \$35 computer to make a web spider, a weather station, a media server, and more. You'll learn how to program in Python on your Raspberry Pi with hands-on examples and fun projects. Even

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if you're completely new to programming in general, you'll figure out how to create a home security system, an underwater photography system, an RC plane with a camera, and even a near-space weather balloon with a camera. You'll learn how to make a variety of fun and even useful

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projects, from a web bot to search and download files to a toy to drive your pets insane. You'll even learn how to use Pi with Arduino as well as Pi with Gertboard, an expansion board with an onboard ATmega microcontroller.

Create Interactive Art  
with Code

Learn It, Try It!

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Infrasound Monitoring  
for Atmospheric  
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Air

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the Inexpensive Linux  
Computer

Hone your  
understanding of  
science and

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engineering concepts  
with the versatile

Arduino

microcontroller and  
powerful Raspberry Pi  
mini-computer. The  
simple,

straightforward, fun  
projects in this book  
use the Arduino and  
Raspberry Pi to build  
systems that explore  
key scientific  
concepts and develop

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engineering skills.

Areas explored

include

force/acceleration,

heat transfer, light,

and astronomy. You'll

work with advanced

tools, such as data

logging, advanced

design,

manufacturing, and

assembly techniques

that will take you

beyond practical

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application of the projects you'll be creating. Technology is ever evolving and changing. This book goes beyond simple how-tos to teach you the concepts behind these projects and sciences. You'll gain the skills to observe and adapt to changes in technology as you work through fun and

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easy projects that  
explore fundamental  
concepts of  
engineering and  
science. What You'll  
Learn Measure the  
acceleration of a car  
you're riding in  
Simulate zero gravity  
Calculate the heat  
transfer in and out of  
your house  
Photography the  
moon and planets

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Who This Book Is  
For Hobbyists,  
students, and  
instructors interested  
in practical  
applications and  
methods to measure  
and learn about the  
physical world using  
inexpensive Maker  
technologies.

A comprehensive  
guide to the  
RTL2832U RTL-SDR

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software defined radio by the authors of the RTL-SDR Blog. The RTL-SDR is a super cheap software defined radio based on DVB-T TV dongles that can be found for under \$20. This book is about tips and tutorials that show you how to get the most out of your RTL-SDR dongle. Most

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projects described in  
this book are also

compatible with other  
wideband SDRs such  
as the HackRF,  
Airspy and SDRPlay  
RSP. What's in the  
book? Learn how to  
set up your RTL-SDR  
with various free  
software defined radio  
programs such as  
SDR#, HDSDR, SDR-  
Radio and more.

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Learn all the little tricks and oddities that the dongle has. A whole chapter dedicated to improving the RTL-SDR's performance. Dozens of tutorials for fun RTL-SDR based projects such as ADS-B aircraft radar, AIS boat radar, ACARS decoding, receiving NOAA and Meteor-M2

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weather satellite  
images, listening to  
and following trunked  
radios, decoding  
digital voice P25/DMR  
signals, decoding  
weather balloon  
telemetry, receiving  
DAB radio, analysing  
GSM and listening to  
TETRA signals,  
decoding pagers,  
receiving various HF  
signals such as ham

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radio modes,  
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D-STAR voice, an  
introduction to GNU  
Radio, decoding RDS,  
decoding APRS,  
measuring filters and  
SWR with low cost  
equipment, receiving  
Inmarsat, Outernet  
and Iridium L-Band  
satellite data, and  
many many more

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projects! Guide to antennas, cables and adapters. Third Edition Released 20 December 2016.

Python in easy steps instructs you how to program in the powerful Python language, giving complete examples that illustrate each aspect with colourized source code. Python

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in easy steps begins by explaining how to install the free Python interpreter so you can quickly begin to create your own executable programs by copying the book's examples. It demonstrates all the Python language basics before moving on to provide examples of Object

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Oriented

Programming (OOP) and CGI scripting to handle web form data. The book concludes by demonstrating how you can use your acquired knowledge to create and deploy graphical windowed applications. Python in easy steps makes no assumption you have previous

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knowledge of any programming language so it's ideal for the newcomer to computer programming. It has an easy-to-follow style that will appeal to programmers moving from another programming language, and to the student who is studying Python

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programming at school or college, and to those seeking a career in computing who need a fundamental understanding of computer programming. Python is the language used to program the Raspberry Pi - covered by Raspberry Pi in easy steps.

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Computer coding sounds intimidating to many people, but what if there was an easy-to-use, affordable device that could help teach this skill in a fun, innovative way?

There is! Raspberry Pi is a tiny computer that kids (and adults) can program to create a wearable camera, a

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game console, and  
much, much more.

Learn about the  
development of  
Raspberry Pi and how  
it is used in homes  
and schools.

Scientific Ballooning  
Mission Python  
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Colonel Joe Kittinger  
Interfacing to the Real  
World with Embedded  
Linux

Make the most out  
of the world's first  
truly compact  
computer It's the  
size of a credit  
card, it can be  
charged like a  
smartphone, it

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runs on open-source Linux, and it holds the promise of bringing programming and playing to millions at low cost. And now you can learn how to use this amazing computer from its co-creator, Eben Upton, in

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Raspberry Pi User  
Guide. Cowritten  
with Gareth

Halfacree, this  
guide gets you up  
and running on  
Raspberry Pi,  
whether you're an  
educator, hacker,  
hobbyist, or kid.

Learn how to  
connect your Pi to

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other hardware,  
install software,  
write basic  
programs, and set  
it up to run robots,  
multimedia  
centers, and more.  
Gets you up and  
running on  
Raspberry Pi, a  
high-tech  
computer the size

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of a credit card  
Helps educators  
teach students  
how to program  
Covers connecting  
Raspberry Pi to  
other hardware,  
such as monitors  
and keyboards,  
how to install  
software, and how  
to configure

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Shows you how to  
set up Raspberry  
Pi as a simple  
productivity  
computer, write  
basic programs in  
Python, connect to  
servos and  
sensors, and drive  
a robot or  
multimedia center

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Adults, kids, and devoted hardware hackers, now that you've got a Raspberry Pi, get the very most out of it with Raspberry Pi User Guide.

This text details the entire OpenGL ES 3.0 pipeline

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with detailed

examples in order  
to provide a guide  
for developing a  
wide range of high  
performance 3D  
applications for  
embedded devices

What can you do  
with the Raspberry  
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computer the size

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of a credit card?  
All sorts of things!  
If you're learning  
how to program--or  
looking to build  
new electronic  
projects, this  
hands-on guide  
will show you just  
how valuable this  
flexible little  
platform can be.

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Raspberry Pi takes

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through many fun

and educational

possibilities. Take

advantage of

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languages. Use

the Raspberry Pi  
with Arduino.

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projects. Play with  
multimedia. With  
Raspberry Pi, you  
can do all of this  
and more. In  
Getting Started

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with Raspberry Pi,  
you'll: Get

acquainted with

hardware features

on the Pi's board

Learn enough

Linux to move

around the

operating system

Start programming

in Python and

Scratch Draw

Scratch Draw

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graphics, play sounds, and handle mouse events with Pygame Use the Pi's input and output pins to do some hardware hacking Discover how Arduino and the Raspberry Pi can work together

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Create your own Pi-based web server with Python Work with the Raspberry Pi Camera Module and USB webcams This introduction to scientific ballooning thoroughly covers large stratospheric balloons, planetary

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balloons, and  
rubber balloons  
used for  
aerological  
observation. It also  
presents advanced  
design concepts  
for a larger super  
pressure balloon.  
Explore STEM  
Concepts with  
Microcomputers

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Meet our Real-Life

Superheroes

Code the Classics

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Volume 1

*The record-breaking records annual is back and packed with more incredible accomplishments, stunts, cutting-edge science and amazing sporting achievements than ever before. With more than 3,000 new and updated records*

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*and 1,000 eye-popping photos, it has thousands of new stats and facts and dazzling new features. There is so much to explore inside. Go on a whirlwind tour of the planet's most amazing places, from the largest swamps to the deepest points on Earth. Find out what*

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*happens when you  
give an octopus a  
Rubik's Cube, and  
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