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This course covers advanced topics in R programming that are necessary for developing powerful, robust, and reusable data science tools. Topics covered include functional programming in R ...

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Advanced R Programming

CCELL, a technology brand owned by Shenzhen Smoore Technology Limited, today announced that it has filed a complaint with the United States International Trade Commission ("ITC") to defend against ...

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CCELL Filed Vape Intellectual Property
Infringements Complaint to U.S.
International Trade Commission

"After conducting due diligence, we announce our intention to build a specialty technology fab in Japan, subject to our board of directors approval," announced CC Wei, chief executive officer of TSMC,

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...

TSMC to Build Japan's Most Advanced Semiconductor Fab

Anyone interested in a high-paying
HVAC-R career should attend this event
By Kris McBride THATCHER, Ariz. —
Professor Eugene Silberstein, the director

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0 ...

Nationally recognized HVAC-R expert
provides public lecture, advanced training
for EAC instructors

Increasing Automotive Production Driving
the Growth of Advanced Carbon
Materials Market. This press release was

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originally distributed by SBWireNewYork,
NY ...

Advanced Carbon Materials Market Size
Forecast to Reach \$7.6 Billion by 2026

VectorBuilder Inc. and Landau
Biotechnology Co. have signed a strategic
partnership that will establish the world ' s

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first primate gene therapy R&D center.

VectorBuilder and Landau To Establish
World ' s First Primate Gene Therapy
R&D Center

The Global Advanced Phase Change
Materials Market size was valued to USD
1 41 billion in 2019 and is predicted to

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garner USD 6.48 billion by 2030
witnessing a CAGR of 14.8% from 2020
2030 Phase Change ...

Advanced Phase Change Materials
Market by Global Demand and Top
Players 2021-2030

XCMG's launch of emergency rescue

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solution and products on the opening day of China Fire 2021 unveiled its latest firefighting digital management platform which realizes digital management and control ...

[XCMG Unveils Advanced Emergency and Rescue Equipment Products at China](#)

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Fire 2021

Honda Civic Type R has been snapped and filmed testing for the very first time at the Nurburgring. The Japanese automaker has ramped up development of the hot hatch in recent weeks and this prototype,

...

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2022 Honda Civic Type R Hits The
Nurburgring, Probably Has A Lap Record
In Mind

Advanced energy and environment technologies, including hydrogen production, and hydrogen mobility, are at the heart of a newly formed Japanese consortium. Formed of between the

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National Institute of ...

Japanese consortium to explore advanced energy and environment technologies; hydrogen included

Today we'll do a simple run through of a valuation method used to estimate the attractiveness of Advanced Energy

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Industries, Inc. (NASDAQ:AEIS) as an investment opportunity by taking the expected ...

Advanced Energy Industries, Inc.'s
(NASDAQ:AEIS) Intrinsic Value Is
Potentially 29% Above Its Share Price

The R35 GT-R is very old. I know it, you

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know it and Nissan knows it. Rumors about a successor have been swirling for nearly as long as the car itself has been in production, which is kind of ...

[Nissan Attempts To Distract From The GT-R's Advanced Age With Two Very Special New Colors](#)

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About Kisqali(R) (ribociclib) Kisqali is the CDK4/6 inhibitor ... in pre/perimenopausal or postmenopausal women with HR+ / HER2- advanced breast cancer(3,4,6,7) . Kisqali is approved by the US ...

Press Release: Novartis presents new

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Kisqali(R) data showing longest median
overall survival ever reported in
HR+ / HER2- advanced breast cancer

The Law Offices of Frank R. Cruz
Reminds Investors of Looming Deadline
in the Class Action Lawsuit Against Sesen
Bio, Inc. (SESN) ...

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The Law Offices of Frank R. Cruz
Reminds Investors of Looming Deadline
in the Class Action Lawsuit Against Sesen
Bio, Inc. (SESN)

Rhizen Pharmaceuticals AG (Rhizen), a Switzerland-based privately held, clinical-stage oncology & inflammation-focussed biopharmaceutical company ...

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Rhizen Pharmaceuticals AG Announces
First Patient Dosing in a Phase II Study of
Tenalisib (RP6530) in Locally Advanced
or Metastatic Breast Cancer Patients

The breast cancer drugs market, which has been steadily growing over the past few years, is projected to continue this

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trend for the ...

Accelerating R&D Activities in Breast
Cancer Therapy Market Fueling
Optimism for Development of Advanced
Treatments

Toyota City, Japan, Oct 12, 2021 - (JCN
Newswire) - The National Institute of

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Advanced Industrial Science and Technology (AIST), Toyota Motor Corporation (Toyota), and Toyota Central R&D Labs., ...

[AIST, Toyota, and Toyota Central R&D Labs to Consider Joint Research on Advanced Energy and Environment](#)

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Technologies

SULLIVAN, Mo.--(BUSINESS WIRE)--Research and development company Bleeding Edge EnSys LLC creates advanced impact and wear resistant polymers for the defense and transportation industry.

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American R&D Small Business Develops
Advanced Polymer Armors for Explosives
and Ballistic Threats.

Japan ' s National Institute of Advanced Industrial Science and Technology (AIST), Toyota Motor Corporation, and Toyota Central R&D Labs., Inc. (CRDL) have commenced discussions on joint research

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aimed ...

An Essential Reference for Intermediate and Advanced R Programmers
Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and

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dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard

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data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing

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programmers what ' s special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

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Advanced R helps you understand how R works at a fundamental level. It is designed for R programmers who want to deepen their understanding of the language, and programmers experienced in other languages who want to understand what makes R different and special. This book will teach you the foundations of R; three

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fundamental programming paradigms (functional, object-oriented, and metaprogramming); and powerful techniques for debugging and optimising your code. By reading this book, you will learn: The difference between an object and its name, and why the distinction is important The important vector data

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structures, how they fit together, and how you can pull them apart using subsetting
The fine details of functions and environments
The condition system, which powers messages, warnings, and errors
The powerful functional programming paradigm, which can replace many for loops
The three most

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important OO systems: S3, S4, and R6
The tidy eval toolkit for
metaprogramming, which allows you to
manipulate code and control evaluation
Effective debugging techniques that you
can deploy, regardless of how your code is
run How to find and remove performance
bottlenecks The second edition is a

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comprehensive update: New foundational chapters: "Names and values," "Control flow," and "Conditions" comprehensive coverage of object oriented programming with chapters on S3, S4, R6, and how to choose between them Much deeper coverage of metaprogramming, including the new tidy evaluation framework use of

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new package like rlang (<http://rlang.r-lib.org>), which provides a clean interface to low-level operations, and purrr (<http://purrr.tidyverse.org/>) for functional programming Use of color in code chunks and figures Hadley Wickham is Chief Scientist at RStudio, an Adjunct Professor at Stanford University and the University

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of Auckland, and a member of the R Foundation. He is the lead developer of the tidyverse, a collection of R packages, including ggplot2 and dplyr, designed to support data science. He is also the author of R for Data Science (with Garrett Grolemund), R Packages, and ggplot2: Elegant Graphics for Data Analysis.

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This book offers solutions to all 284 exercises in *Advanced R, Second Edition*. All the solutions have been carefully documented and made to be as clear and accessible as possible. Working through the exercises and their solutions will give you a deeper understanding of a variety of

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programming challenges, many of which are relevant to everyday work. This will expand your set of tools on a technical and conceptual level. You will be able to transfer many of the specific programming schemes directly and will discover far more elegant solutions to everyday problems.

Features: When R creates copies, and how

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it affects memory usage and code performance Everything you could ever want to know about functions The differences between calling and exiting handlers How to employ functional programming to solve modular tasks The motivation, mechanics, usage, and limitations of R's highly pragmatic S3 OO

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system The R6 OO system, which is more like OO programming in other languages
The rules that R uses to parse and evaluate expressions
How to use metaprogramming to generate HTML or LaTeX with elegant R code
How to identify and resolve performance bottlenecks

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"This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience"--

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Turn your R code into packages that others can easily download and use. This practical book shows you how to bundle reusable R functions, sample data, and documentation together by applying author Hadley Wickham ' s package development philosophy. In the process, you ' ll work with devtools, roxygen, and

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testthat, a set of R packages that automate common development tasks. Devtools encapsulates best practices that Hadley has learned from years of working with this programming language. Ideal for developers, data scientists, and programmers with various backgrounds, this book starts you with the basics and

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shows you how to improve your package writing over time. You ' ll learn to focus on what you want your package to do, rather than think about package structure. Learn about the most useful components of an R package, including vignettes and unit tests Automate anything you can, taking advantage of the years of

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development experience embodied in devtools Get tips on good style, such as organizing functions into files Streamline your development process with devtools Learn the best way to submit your package to the Comprehensive R Archive Network (CRAN) Learn from a well-respected member of the R community who created

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30 R packages, including ggplot2, dplyr, and tidyr

There are many excellent R resources for visualization, data science, and package development. Hundreds of scattered vignettes, web pages, and forums explain how to use R in particular domains. But

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little has been written on how to simply make R work effectively—until now. This hands-on book teaches novices and experienced R users how to write efficient R code. Drawing on years of experience teaching R courses, authors Colin Gillespie and Robin Lovelace provide practical advice on a range of

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topics—from optimizing the set-up of RStudio to leveraging C++—that make this book a useful addition to any R user ' s bookshelf. Academics, business users, and programmers from a wide range of backgrounds stand to benefit from the guidance in *Efficient R Programming*. Get advice for setting up an

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R programming environment Explore general programming concepts and R coding techniques Understand the ingredients of an efficient R workflow Learn how to efficiently read and write data in R Dive into data carpentry—the vital skill for cleaning raw data Optimize your code with profiling, standard tricks,

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and other methods Determine your hardware capabilities for handling R computation Maximize the benefits of collaborative R programming Accelerate your transition from R hacker to R programmer

Carry out a variety of advanced statistical

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analyses including generalized additive models, mixed effects models, multiple imputation, machine learning, and missing data techniques using R. Each chapter starts with conceptual background information about the techniques, includes multiple examples using R to achieve results, and concludes with a case study.

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Written by Matt and Joshua F. Wiley, *Advanced R Statistical Programming and Data Models* shows you how to conduct data analysis using the popular R language. You ' ll delve into the preconditions or hypothesis for various statistical tests and techniques and work through concrete examples using R for a

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variety of these next-level analytics. This is a must-have guide and reference on using and programming with the R language. What You ' ll Learn Conduct advanced analyses in R including: generalized linear models, generalized additive models, mixed effects models, machine learning, and parallel processing Carry out

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regression modeling using R data
visualization, linear and advanced
regression, additive models, survival / time
to event analysis Handle machine learning
using R including parallel processing,
dimension reduction, and feature selection
and classification Address missing data
using multiple imputation in R Work on

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factor analysis, generalized linear mixed models, and modeling intraindividual variability Who This Book Is For Working professionals, researchers, or students who are familiar with R and basic statistical techniques such as linear regression and who want to learn how to use R to perform more advanced analytics.

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Particularly, researchers and data analysts in the social sciences may benefit from these techniques. Additionally, analysts who need parallel processing to speed up analytics are given proven code to reduce time to result(s).

Program for data analysis using R and

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learn practical skills to make your work more efficient. This book covers how to automate running code and the creation of reports to share your results, as well as writing functions and packages. Advanced R is not designed to teach advanced R programming nor to teach the theory behind statistical procedures. Rather, it is

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designed to be a practical guide moving beyond merely using R to programming in R to automate tasks. This book will show you how to manipulate data in modern R structures and includes connecting R to data bases such as SQLite, PostgreSQL, and MongoDB. The book closes with a hands-on section to get R running in the

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cloud. Each chapter also includes a detailed bibliography with references to research articles and other resources that cover relevant conceptual and theoretical topics. What You Will Learn Write and document R functions Make an R package and share it via GitHub or privately Add tests to R code to insure it works as

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intended Build packages automatically
with GitHub Use R to talk directly to
databases and do complex data
management Run R in the Amazon cloud
Generate presentation-ready tables and
reports using R Who This Book Is For
Working professionals, researchers, or
students who are familiar with R and basic

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statistical techniques such as linear regression and who want to learn how to take their R coding and programming to the next level.

Advanced R helps you understand how R works at a fundamental level. It is designed for R programmers who want to deepen

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their understanding of the language, and programmers experienced in other languages who want to understand what makes R different and special. This book will teach you the foundations of R; three fundamental programming paradigms (functional, object-oriented, and metaprogramming); and powerful

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techniques for debugging and optimising your code. By reading this book, you will learn: The difference between an object and its name, and why the distinction is important The important vector data structures, how they fit together, and how you can pull them apart using subsetting The fine details of functions and

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environments The condition system,
which powers messages, warnings, and
errors The powerful functional
programming paradigm, which can
replace many for loops The three most
important OO systems: S3, S4, and R6
The tidy eval toolkit for
metaprogramming, which allows you to

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manipulate code and control evaluation
Effective debugging techniques that you
can deploy, regardless of how your code is
run How to find and remove performance
bottlenecks The second edition is a
comprehensive update: New foundational
chapters: "Names and values," "Control
flow," and "Conditions" comprehensive

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coverage of object oriented programming with chapters on S3, S4, R6, and how to choose between them Much deeper coverage of metaprogramming, including the new tidy evaluation framework use of new package like rlang (<http://rlang.r-lib.org>), which provides a clean interface to low-level operations, and purrr

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(<http://purrr.tidyverse.org/>) for functional programming Use of color in code chunks and figures Hadley Wickham is Chief Scientist at RStudio, an Adjunct Professor at Stanford University and the University of Auckland, and a member of the R Foundation. He is the lead developer of the tidyverse, a collection of R packages,

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including ggplot2 and dplyr, designed to support data science. He is also the author of R for Data Science (with Garrett Grolemund), R Packages, and ggplot2: Elegant Graphics for Data Analysis.

""R" is one of the most frequently misarticulated sounds in English (Hegde,

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2019; Shriberg, 2009). SLPs may devote a significant amount of therapy hours addressing remediation of /r/. The repetitive nature of articulation practice can cause both the student/client and therapist to lose the high level of interest and energy needed to remain focused on targeted, repeated practice that assures

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generalization of correct sound production. Mastering R: Advanced Articulation Exercises provides SLPs and their students/clients with a wealth of opportunities for practicing the production of /r/ in various contexts to promote generalization. Hodson & Paden (1991) recommend planning remediation to take

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advantage of the tendency to generalize.

Mastering R is intended as a generalization resource to be used after initial instruction in the production of /r/ in isolation, syllables and single words.

Mastering R presents novel stimulus items incorporating contemporary topics, references and vocabulary, interesting facts

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and trivia, and humor, suitable for use with students/clients in grades 4 and above. We have found the use of more engaging and interesting stimulus items tends to increase interest and participation, hopefully increasing the potential for positive therapy outcomes" --

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