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Analysis Techniques for Racecar Data Acquisition *Sae International*

Data acquisition has become an invaluable tool for establishing racecar - and car/driver - performance. Now that the ability exists to analyze each and every performance parameter for car and driver, accurate use of this data can provide a key advantage on the racetrack. This book provides a thorough overview of the varied methods for analyzing racecar data acquisition system outputs, with a focus on vehicle dynamics. Covering the latest technology in data acquisition, topics include basics (choosing the right hardware, software requirements, basic channel interpretation, and measuring with the proper accuracy), acceleration, braking, gearing, cornering, model suspension analysis, roll stiffness distribution, frequencies and damping, chassis stiffness and compliance, racing lines, simulation tools, data and race tactics, and sensor technology.

Analysis Techniques for Racecar Data Acquisition *Sae International*

Racecar data acquisition used to be limited to well-funded teams in high-profile championships. Today the cost of electronics has decreased dramatically making them available to everyone. But the cost of any data acquisition system is a waste of money if the recorded data is not interpreted

correctly. This book updated from the best-selling 2008 edition contains techniques for analyzing data recorded by any vehicle's data acquisition system. It details how to measure the performance of the vehicle and driver what can be learned from it and how this information can be used to advantage next time the vehicle hits the track. Such information is invaluable to racing engineers and managers race teams and racing data analysts in all motorsports. Whether measuring the performance of a Formula One racecar or that of a road-legal street car on the local drag strip the dynamics of vehicles and their drivers remain the same. Identical analysis techniques apply. Some race series have restricted data logging to decrease the team's running budgets. In these cases it is extremely important that a maximum of information is extracted and interpreted from the hardware at hand.A team that uses data more efficiently will have an edge over the competition. However the ever-decreasing cost of electronics makes advanced sensors and logging capabilities more accessible for everybody. With this comes the risk of information overload. Techniques are needed to help draw the right conclusions quickly from very large data sets. In addition to updates throughout this new edition contains three new chapters: one on techniques for analyzing tire performance one that provides an introduction to metric-driven analysis a technique that is used throughout the book and another that explains what kind of information the data contains about the track.

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Data acquisition has become an invaluable tool for establishing racecar - and car/driver - performance. Now that the ability exists to analyze each and every performance parameter for car and driver, accurate use of this data can provide a key advantage on the racetrack. This book provides a thorough overview of the varied methods for analyzing racecar data acquisition system outputs, with a focus on vehicle dynamics.

A Practical Guide to Race Car Data Analysis *CreateSpace*

A Practical Guide to Race Car Data Analysis was written for the amateur and lower-level professional racers who either have a data system in their cars or who may be thinking about installing one but who do not have access to an experienced data engineer. Using real track data, numerous real-world examples, and more than 200 illustrations, the Guide gives racers the knowledge and skills they need to select, configure and use their data systems efficiently and effectively.

Analysis Techniques for Race Car Data Acquisition

This book, updated from the best-selling 2008 edition, contains techniques for analyzing data recorded by any vehicle's data acquisition system. It details how to measure the performance of the vehicle and driver, what can be learned from it, and how this information can be used to advantage next time the vehicle hits the track. Such information is invaluable to racing engineers and managers, race teams, and racing data analysts in all motor sports. In addition to updates throughout, this new edition contains three new chapters: one on techniques for analyzing tire performance, one that provides an introduction to metric-driven analysis, a technique that is used throughout the book, and another that explains what kind of information the data contains about the track.

Hands-on Race Car Engineer *Society of Automotive Engineers*

Hands-On Race Car Engineer looks at every part of the process required to make a car better than its competitors. Drivers will gain a better understanding of the dynamics of the vehicle. Race engineers will better understand the practical implications of set-up. Design engineers will gain insight into practical applications of their designs. Mechanics will better understand why engineers design things a certain way. In short, this book will help racing professionals and enthusiasts learn to recognize why they won, or lost a race - key information to continually improving and reaching the winner's circle.

Making Sense of Squiggly Lines

The Basic Analysis of Race Car Data Acquisition

This introductory book teaches the basic techniques of data analysis to help make race cars and drivers go faster. Six main channels are scrutinized including Speed, Engine RPM, Throttle Position, G Force Lateral, G Force Longitudinal and Steering Angle.

Data Power

Using Racecar Data Acquisition *Towery Pub*

Feedback Systems *Princeton University Press*

The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

Performance Vehicle Dynamics

Engineering and Applications *Butterworth-Heinemann*

Performance Vehicle Dynamics: Engineering and Applications offers an accessible treatment of the complex material needed to achieve level seven learning outcomes in the field. Users will gain a complete, structured understanding that enables the preparation of useful models for characterization and optimization of performance using the same Automotive or Motorsport industry techniques and approaches. As the approach to vehicle dynamics has changed over time, largely due to advances in computing power, the subject has, in practice, always been computer intensive, but this use has changed, with modeling of relatively complex vehicle dynamics topics now even

possible on a PC. Explains how to numerically and computationally model vehicle dynamics Features the use of cost functions with multi-body models Learn how to produce mathematical models that offer excellent performance prediction

Competition Car Data Logging *Haynes Publications*

For professional teams in all forms of motorsport, data logging has become an essential tool in the search to maximize performance from engine, chassis and driver. Data logging equipment is now accessible to amateur drivers and constructors, and is a very cost-effective way of improving performance. Fully updated to include recent developments, this is a readable, well-illustrated guide to all aspects of data logging, explaining how to design and install a system, and how to interpret the data obtained and use it to analyze performance. The book will also appeal to armchair enthusiasts.

The Science of Vehicle Dynamics

Handling, Braking, and Ride of Road and Race Cars *Springer*

This textbook covers handling and performance of both road and race cars. Mathematical models of vehicles are developed always paying attention to state the relevant assumptions and to provide explanations for each step. This innovative approach provides a deep, yet simple, analysis of the dynamics of vehicles. The reader will soon achieve a clear understanding of the subject, which will be of great help both in dealing with the challenges of designing and testing new vehicles and in tackling new research topics. The book deals with several relevant topics in vehicle dynamics that are not discussed elsewhere and this new edition includes thoroughly revised chapters, with new developments, and many worked exercises. Praise for the previous edition: Great book! It has changed drastically our approach on many topics. We are now using part of its theory on a daily basis to constantly improve ride and handling performances. --- Antonino Pizzuto, Head of Chassis Development Group at Hyundai Motor Europe Technical Center Astonishingly good! Everything is described in a very compelling and complete way. Some parts use a different approach than other books. --- Andrea Quintarelli, Automotive Engineer

Making Sense of Data

A Practical Guide to Exploratory Data Analysis and Data Mining *John Wiley & Sons*

The Competition Car Data Logging Manual *Veloce Publishing Ltd*

At last. A practical handbook on how to choose and operate datalogging equipment and get the full benefit from what it tells you. Aimed at the amateur competitor, it covers hardware and software and takes over where the manufacturers instructions run out. It shows how to understand what the data is telling you and how to use it to go faster. It covers standard information screens and shows you how to create your own charts and tables that will illuminate the performance of both the car, the driver and the team. On the way, it deals with systems management issues, how to get the quick and easy payoffs, and how to benefit in the long term. It explains how sensors work, how to fit them so they survive and to calibrate them. The final chapter is a Field Guide designed to help you run the system, trouble-shoot hardware and software problems and quickly interpret the output of the graphs under pressure during an event.

An Applied Guide to Research Designs

Quantitative, Qualitative, and Mixed Methods *SAGE Publications*

The Second Edition of An Applied Guide to Research Designs offers researchers in the social and behavioral sciences guidance for selecting the most appropriate research design to apply in their study. Using consistent terminology, the authors visually present a range of research designs used in quantitative, qualitative, and mixed methods to help readers conceptualize, construct, test, and problem solve in their investigation. The Second Edition features revamped and expanded coverage of research designs, new real-world examples and references, a new chapter on action research, and updated ancillaries.

The Science of Motorsport *Routledge*

Despite its worldwide following, high levels of investment and scientific complexity, there is a lack of evidence-based literature on the science of human performance in motorsport. Focusing on the physiological, psychological and sport medicine aspects of training, performance, injury and safety, The Science of Motorsport is the first book to provide an accessible and up-to-date resource for stakeholders at all levels of motorsport. Addressing the physiological and psychological stresses of racing across a full range of sports, from Formula 1 and IndyCar to NASCAR and endurance racing, the book includes chapters on: • nutritional and physical training strategies for drivers; • the driver's neck; • injury rates and pathologies of open-wheel driving; • return to competition from concussion; • driver safety; • and considerations for pit crews and safety staff. Accessibly written and made up of contributions from world-leading authorities in motorsport science research, this is a crucial resource for racing drivers, physical trainers, pit crew members and safety personnel, as well as researchers and students with an interest in applied sport physiology, applied sport psychology or sport medicine.

Speed Secrets

Professional Race Driving Techniques *Motorbooks*

Shave lap times or find a faster line through your favorite set of S-curves with professional race driver Ross Bentley as he shows you the quickest line from apex to apex! With tips and commentary from current race drivers, Bentley covers the vital techniques of speed, from visualizing lines to interpreting tire temps to put you in front of the pack. Includes discussion of practice techniques, chassis set-up, and working with your pit chief.

Predictive Marketing

Easy Ways Every Marketer Can Use Customer Analytics and Big Data *John Wiley & Sons*

Make personalized marketing a reality with this practical guide to predictive analytics Predictive Marketing is a predictive analytics primer for organizations large and small, offering practical tips and actionable strategies for implementing more personalized marketing immediately. The marketing paradigm is changing, and this book provides a blueprint for navigating the transition from creative- to data-driven marketing, from one-size-fits-all to one-on-one, and from marketing campaigns to real-time customer experiences. You'll learn how to use machine-learning technologies to improve customer acquisition and customer growth, and how to identify and re-engage at-risk or lapsed customers by implementing an easy, automated approach to predictive analytics. Much more

than just theory and testament to the power of personalized marketing, this book focuses on action, helping you understand and actually begin using this revolutionary approach to the customer experience. Predictive analytics can finally make personalized marketing a reality. For the first time, predictive marketing is accessible to all marketers, not just those at large corporations — in fact, many smaller organizations are leapfrogging their larger counterparts with innovative programs. This book shows you how to bring predictive analytics to your organization, with actionable guidance that get you started today. Implement predictive marketing at any size organization Deliver a more personalized marketing experience Automate predictive analytics with machine learning technology Base marketing decisions on concrete data rather than unproven ideas Marketers have long been talking about delivering personalized experiences across channels. All marketers want to deliver happiness, but most still employ a one-size-fits-all approach. Predictive Marketing provides the information and insight you need to lift your organization out of the campaign rut and into the rarefied atmosphere of a truly personalized customer experience.

How to Make Your Car Handle

Pro Methods for Improved Handling, Safety and Performance Penguin

To make your car handle, design a suspension system, or just learn about chassis, you'll find what you need here. Basic suspension theory is thoroughly covered: roll center, roll axis, camber change, bump steer, anti-dive, ride rate, ride balance and more. How to choose, install and modify suspensions and suspension hardware for best handling: springs, sway bars, shock absorbers, bushings, tired and wheels. Regardless of the basic layout of your car—front engine/rear drive, front engine/front drive, or rear engine/rear drive—it is covered here. Aerodynamic hardware and body modifications for reduced drag, high-speed stability and increased cornering power: spoilers, air dams, wings and ground-effects devices. How to modify and set up brakes for maximum stopping power and handling. The most complete source of handling information available. "Suspension secrets" explained in plain, understandable language so you can be the expert.

Race Car Vehicle Dynamics Set Society of Automotive Engineers

This set includes Race Car Vehicle Dynamics, and Race Car Vehicle Dynamics - Problems, Answers and Experiments. Written for the engineer as well as the race car enthusiast, Race Car Vehicle Dynamics includes much information that is not available in any other vehicle dynamics text. Truly comprehensive in its coverage of the fundamental concepts of vehicle dynamics and their application in a racing environment, this book has become the definitive reference on this topic. Although the primary focus is on the race car, the engineering fundamentals detailed are also applicable to passenger car design and engineering. Authors Bill and Doug Milliken have developed many of the original vehicle dynamics theories and principles covered in this book, including the Moment Method, "g-g" Diagram, pair analysis, lap time simulation, and tyre data normalization. The book also includes contributions from other experts in the field. Chapters cover: *The Problem Imposed by Racing *Tire Behavior *Aerodynamic Fundamentals *Vehicle Axis Systems and more. Written for the engineer as well as the race car enthusiast and students, the companion workbook to the original classic book, Race Car Vehicle Dynamics, includes: *Detailed worked solutions to all of the problems *Problems for every chapter in Race Car Vehicle Dynamics, including many new problems *The Race Car Vehicle Dynamics Program Suite (for Windows) with accompanying exercises *Experiments to try with your own vehicle *Educational appendix with additional references and course outlines *Over 90 figures and graphs This workbook is widely used as a college textbook and has been an SAE International best seller since it's introduction in 1995.

Streaming Architecture

New Designs Using Apache Kafka and Mapr Streams "O'Reilly Media, Inc."

More and more data-driven companies are looking to adopt stream processing and streaming analytics. With this concise ebook, you'll learn best practices for designing a reliable architecture that supports this emerging big-data paradigm. Authors Ted Dunning and Ellen Friedman (Real World Hadoop) help you explore some of the best technologies to handle stream processing and analytics, with a focus on the upstream queuing or message-passing layer. To illustrate the effectiveness of these technologies, this book also includes specific use cases. Ideal for developers and non-technical people alike, this book describes: Key elements in good design for streaming analytics, focusing on the essential characteristics of the messaging layerNew messaging technologies, including Apache Kafka and MapR Streams, with links to sample codeTechnology choices for streaming analytics: Apache Spark Streaming, Apache Flink, Apache Storm, and Apache ApexHow stream-based architectures are helpful to support microservicesSpecific use cases such as fraud detection and geo-distributed data streams Ted Dunning is Chief Applications Architect at MapR Technologies, and active in the open source community. He currently serves as VP for Incubator at the Apache Foundation, as a champion and mentor for a large number of projects, and as committer and PMC member of the Apache ZooKeeper and Drill projects. Ted is on Twitter as @ted_dunning. Ellen Friedman, a committer for the Apache Drill and Apache Mahout projects, is a solutions consultant and well-known speaker and author, currently writing mainly about big data topics. With a PhD in Biochemistry, she has years of experience as a research scientist and has written about a variety of technical topics. Ellen is on Twitter as @Ellen_Friedman.

Maximum Boost

Designing, Testing and Installing Turbocharger Systems Robert Bentley, Incorporated

Whether youre interested in better performance on the road or extra horsepower to be a winner on the track, this book gives you the knowledge you need to get the most out of your engine and its turbocharger system. Find out what works and what doesnt, which turbo is right for your needs, and what type of set-up will give you that extra boost. Bell shows you how to select and install the right turbo, how to prep your engine, test the systems, and integrate a turbo with EFI or carbureted engine.

Introduction to Sports Biomechanics

Analysing Human Movement Patterns Routledge

Introduction to Sports Biomechanics has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.

Reinforcement Learning, second edition

An Introduction MIT Press

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Competition Car Aerodynamics 3rd Edition Veloce Publishing Ltd

From historical background to state of the art techniques, and with chapters covering airdams, splitters, spoilers, wings, underbodies and myriad miscellaneous devices, Competition Car Aerodynamics 3rd Edition also features in-depth case studies from across the motorsport spectrum to help develop a comprehensive understanding of the subject.

Autonomous Vehicle Technology

A Guide for Policymakers Rand Corporation

Autonomous vehicle technology has the potential to significantly improve social welfare. This report addresses the numerous legislative, regulatory, and liability issues this technology will raise.

Applied Network Security Monitoring

Collection, Detection, and Analysis Elsevier

Applied Network Security Monitoring is the essential guide to becoming an NSM analyst from the ground up. This book takes a fundamental approach to NSM, complete with dozens of real-world examples that teach you the key concepts of NSM. Network security monitoring is based on the principle that prevention eventually fails. In the current threat landscape, no matter how much you try, motivated attackers will eventually find their way into your network. At that point, it is your ability to detect and respond to that intrusion that can be the difference between a small incident and a major disaster. The book follows the three stages of the NSM cycle: collection, detection, and analysis. As you progress through each section, you will have access to insights from seasoned NSM professionals while being introduced to relevant, practical scenarios complete with sample data. If you've never performed NSM analysis, Applied Network Security Monitoring will give you an adequate grasp on the core concepts needed to become an effective analyst. If you are already a practicing analyst, this book will allow you to grow your analytic technique to make you more effective at your job. Discusses the proper methods for data collection, and teaches you how to become a skilled NSM analyst Provides thorough hands-on coverage of Snort, Suricata, Bro-IDS, SiLK, and Argus Loaded with practical examples containing real PCAP files you can replay, and uses Security Onion for all its lab examples Companion website includes up-to-date blogs from the authors about the latest developments in NSM

Road Vehicle Dynamics

Fundamentals and Modeling with MATLAB® CRC Press

Road Vehicle Dynamics: Fundamentals and Modeling with MATLAB®, Second Edition combines coverage of vehicle dynamics concepts with MATLAB v9.4 programming routines and results, along with examples and numerous chapter exercises. Improved and updated, the revised text offers new coverage of active safety systems, rear wheel steering, race car suspension systems, airsprings, four-wheel drive, mechatronics, and other topics. Based on the lead author's extensive lectures, classes, and research activities, this unique text provides readers with insights into the computer-based modeling of automobiles and other ground vehicles. Instructor resources, including problem solutions, are available from the publisher.

Tune to Win Carroll Smith Consulting

Covers the development and tuning of race car by clearly explaining the basic principles of vehicle dynamics and relating these principles to the input and control functions of the racing driver. An exceptional book written by a true professional.

Race Car Design Macmillan International Higher Education

Based on the principles of engineering science, physics and mathematics, but assuming only an elementary understanding of these, Race Car Design masterfully explains the theory and practice of the subject. Bringing together key topics, including the chassis frame, tyres, suspension, steering and brakes, this is the first text to cover all the essential elements of race car design in one student-friendly textbook. Race Car Design: - Features a wealth of illustrations, including a full-colour plate section - Demonstrates the important role of computer tools - Uses dozens of clear examples and calculations to illustrate both theory and practical applications - Is written by an experienced author, known for his engaging and accessible style This book is an ideal accompaniment for motorsport engineering students and is the best possible resource for those involved in Formula Student/FSAE. It is also a valuable guide for practising car designers and enthusiasts.

The Bravest of Them All - The Legend of Stan Bowman

Foreword by Tony Stewart CreateSpace

This story describes USAC sprint car racing in the early 1960s and a driver named Stan Bowman. It captures Bowman's win at the first USAC sprint car race at Eldora Speedway in 1962. Bowman also captured the attention of Clint Brawner, the legendary Indianapolis 500 mechanic of that era.The story is told through the eyes of Diane Beck Lane, who was daughter of Harold Beck, the owner of Bowman's race car at Eldora in 1962. In 2012, Eldora Speedway, now owned by Tony Stewart, honored the 50th anniversary of Bowman's victory and Diane Beck Lane now retells the legend of Stan Bowman in the golden era in USAC sprint car racing.

High Performance Compilers for Parallel Computing *Addison Wesley*
Software -- Operating Systems.

Data Structures and Algorithms in Python *Wiley Global Education*
Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. Data Structures and Algorithms in Python is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as Data Structures and Algorithms in Java and Data Structures and Algorithms in C++.

Data Structures and Algorithms in Java *John Wiley & Sons*
The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented paradigm as the framework of choice for the design of data structures. For each ADT presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, net.datastructures. This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

Aptera *Marshall Cavendish*
"Provides information on the green technology used in the Aptera, and discusses how the green movement is affecting the auto industry"--Provided by publisher.

Introduction to Internal Combustion Engines *Macmillan International Higher Education*
Now in its fourth edition, Introduction to Internal Combustion Engines remains the indispensable text to guide you through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice is sure to help you understand internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. Introduction to Internal Combustion Engines: - Is ideal for students who are following specialist options in internal combustion engines, and also for students at earlier stages in their

courses - especially with regard to laboratory work - Will be useful to practising engineers for an overview of the subject, or when they are working on particular aspects of internal combustion engines that are new to them - Is fully updated including new material on direct injection spark engines, supercharging and renewable fuels - Offers a wealth of worked examples and end-of-chapter questions to test your knowledge - Has a solutions manual available online for lecturers at www.palgrave.com/engineering/stone

Evaluating Derivatives

Principles and Techniques of Algorithmic Differentiation, Second Edition *SIAM*
This title is a comprehensive treatment of algorithmic, or automatic, differentiation. The second edition covers recent developments in applications and theory, including an elegant NP completeness argument and an introduction to scarcity.

Summary of Low Speed Airfoil Data *Soartech*

Statistical Inference via Data Science: A ModernDive into R and the Tidyverse *CRC Press*
Statistical Inference via Data Science: A ModernDive into R and the Tidyverse provides a pathway for learning about statistical inference using data science tools widely used in industry, academia, and government. It introduces the tidyverse suite of R packages, including the ggplot2 package for data visualization, and the dplyr package for data wrangling. After equipping readers with just enough of these data science tools to perform effective exploratory data analyses, the book covers traditional introductory statistics topics like confidence intervals, hypothesis testing, and multiple regression modeling, while focusing on visualization throughout. Features: ● Assumes minimal prerequisites, notably, no prior calculus nor coding experience ● Motivates theory using real-world data, including all domestic flights leaving New York City in 2013, the Gapminder project, and the data journalism website, FiveThirtyEight.com ● Centers on simulation-based approaches to statistical inference rather than mathematical formulas ● Uses the infer package for "tidy" and transparent statistical inference to construct confidence intervals and conduct hypothesis tests via the bootstrap and permutation methods ● Provides all code and output embedded directly in the text; also available in the online version at moderndive.com This book is intended for individuals who would like to simultaneously start developing their data science toolbox and start learning about the inferential and modeling tools used in much of modern-day research. The book can be used in methods and data science courses and first courses in statistics, at both the undergraduate and graduate levels.

Driving in Competition *W. W. Norton & Company*