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Canadian Edition

Visualizing Environmental Science Canadian Edition

Now that people are aware that data can make the difference in an election or a business model, data science as an occupation is gaining ground. But how can you get started working in a wide-ranging, interdisciplinary field that's so clouded in hype? This insightful book, based on Columbia University's Introduction to Data Science class, tells you what you need to know. In many of these chapter-long lectures, data

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scientists from companies such as Google, Microsoft, and eBay share new algorithms, methods, and models by presenting case studies and the code they use. If you're familiar with linear algebra, probability, and statistics, and have programming experience, this book is an ideal introduction to data science. Topics include: Statistical inference, exploratory data analysis, and the data science process Algorithms Spam filters, Naive Bayes, and data wrangling Logistic regression Financial modeling Recommendation engines and causality Data visualization Social networks and data

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journalism Data engineering, MapReduce, Pregel, and Hadoop Doing Data Science is collaboration between course instructor Rachel Schutt, Senior VP of Data Science at News Corp, and data science consultant Cathy O'Neil, a senior data scientist at Johnson Research Labs, who attended and blogged about the course.

The landscape of contemporary research is characterized by growing interdisciplinarity, and disciplinary boundaries are blurring faster than ever. Yet while interdisciplinary methods, and methodological innovation in general, are often presented as the 'holy

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grail' of research, there are few examples or discussions of their development and 'behaviour' in the field. This Routledge Handbook of Interdisciplinary Research presents a bold intervention by showcasing a diversity of stimulating approaches. Over 50 experienced researchers illustrate the challenges, but also the rewards of doing and representing interdisciplinary research through their own methodological developments. Featured projects cover a variety of scales and topics, from small art-science collaborations to the 'big data' of mass observations. Each section is dedicated

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to an aspect of data handling, from collection, classification, validation to communication to research audiences. Most importantly, *Interdisciplinary Methods* presents a distinctive approach through its focus on knowledge as process, defamiliarising and reworking familiar practices such as experimenting, archiving, observing, prototyping or translating. *Visualizing Everyday Chemistry* is for a one-semester course dedicated to introducing chemistry to non-science students. It shows what chemistry is and what it does, by integrating words with powerful and

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compelling visuals and learning aids. With this approach, students not only learn the basic principles of chemistry but see how chemistry impacts their lives and society. The goal of Visualizing Everyday Chemistry is to show students that chemistry is important and relevant, not because we say it is but because they see it is.

The sixth mass extinction or Anthropocene extinction is one of the most pervasive issues of our time. Animals, Plants and Afterimages brings together leading scholars in the humanities and life sciences to explore how extinct species are represented

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in art and visual culture, with a special emphasis on museums. Engaging with celebrated cases of vanished species such as the quagga and the thylacine as well as less well-known examples of animals and plants, these essays explore how representations of recent and ancient extinctions help advance scientific understanding and speak to contemporary ecological and environmental concerns.

Python Data Science Handbook

The Art and Science of Representing
Extinction

Film and Constitutional Controversy

Visualizing Geology

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Seeing and Visualizing

Discovering, Analyzing, Visualizing and
Presenting Data

Accompanying CD-ROM contains ... "the images in the Density Catalog to facilitate their noncommercial use in public discussions and education programs."--Page vii.

A hopeful, inspiring, and honest take on the environment Yes, the world faces substantial environmental challenges — climate change, pollution, and extinction. But the surprisingly good news is that we have solutions to these problems. In the past 50 years, a remarkable

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number of environmental problems have been solved, while substantial progress is ongoing on others. The Optimistic Environmentalist chronicles these remarkable success stories. Endangered species — from bald eagles to gray whales — pulled back from the precipice of extinction. Thousands of new parks, protecting billions of hectares of land and water. The salvation of the ozone layer, vital to life on Earth. The exponential growth of renewable energy powered by wind, water, and sun. The race to be the greenest city in the world. Remarkable strides in cleaning up the air we

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breathe and the water we drink. The banning of dozens of the world's most toxic chemicals. A circular economy where waste is a thing of the past. Past successes pave the way for even greater achievements in the future. Providing a powerful antidote to environmental despair, this book inspires optimism, leading readers to take action and exemplifying how change can happen. A bright green future is not only possible, it's within our grasp.

The newly revised Fourth Edition of Visualizing Geology, WileyPLUS NextGen Card and Loose-leaf Set Single Semester delivers an

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authoritative and thorough exploration of introductory Earth system science and geology in the distinctive style of the Wiley Visualizing series. Students learn about the three grand geologic cycles - tectonic, rock, and water - and how they interact to create and shape the geologic features we see and experience. This single-semester loose-leaf set includes access to the renowned WileyPLUS NextGen digital learning environment, an indispensable pedagogical addition to any classroom. Visualizing Microbiology, 1st Edition provides an introduction to microbiology for students who

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require the basic fundamentals of microbiology as a requirement for their major or course of study. The unique visual pedagogy of the Visualizing series provides a powerful combination of content, visuals, multimedia and videos ideal for microbiology. A dynamic learning platform encouraging engagement with real clinical content, Visualizing Microbiology also brings the narrative to life with integrated multimedia helping students see and understand the unseen in the world of microbiology.

**Visual Thinking for Architects and Designers
Visualizing Everyday Chemistry**

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Cases on Immersive Virtual Reality Techniques Visualizing Human Biology Lab Manual Environment Global Ecology

Visualizing the Environment, Canadian Edition follows a fresh approach to Environmental Science. Wiley, in partnership with National Geographic, has created a visually-focused text designed to uniquely address the processing style of today's student by making material accessible and engaging without sacrificing content. Visualizing the Environment focuses on environmental

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sustainability and teaches students the principles of understanding the biological, physical, and socioeconomic attributes of the environment. It centres on problems that have resulted from human activities, and most importantly looks at a diversity of solutions and actions that can be taken to ensure the future well-being of our Earth.

Carbon dioxide and global climate change are largely invisible, and the prevailing imagery of climate change is often remote (such as ice floes melting) or abstract and scientific (charts and global temperature maps). Using dramatic visual imagery such as 3D and 4D

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visualizations of future landscapes, community mapping, and iconic photographs, this book demonstrates new ways to make carbon and climate change visible where we care the most, in our own backyards and local communities. Extensive color imagery explains how climate change works where we live, and reveals how we often conceal, misinterpret, or overlook the evidence of climate change impacts and our carbon usage that causes them. This guide to using visual media in communicating climate change vividly brings to life both the science and the practical solutions for climate change, such as local

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renewable energy and flood protection. It introduces powerful new visual tools (from outdoor signs to video-games) for communities, action groups, planners, and other experts to use in engaging the public, building awareness and accelerating action on the world's greatest crisis.

Kasprisin and Pettinari (Kasprisin Pettinari Design: Architects and Urban Planners, Seattle) present their concept of "visual thinking," which involves drawing three-dimensional renderings as a means to create environment-friendly architectural designs in urban areas. They take the reader through the

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design process: principles, elements, techniques of drawing; visualizing place as context; scaling; phasing; and how to involve the public in the design. Four detailed case studies and over 300 drawings illuminate the reality behind the theory. Annotation copyright by Book News, Inc., Portland, OR Provides information on the methods of visualizing data on the Web, along with example projects and code.

Modular Information Design Handbook

Visualizing Environmental Science 3E

Animals, Plants and Afterimages

Visualizing the Environment

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Visualizing Density

Visualizing Hong Kong Identity in the Age of 'One Country, Two Systems'

Engage students in mathematics using growth mindset techniques The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts. In this volume, you'll find a collection of low-floor, high-ceiling tasks that will help you do just that, by looking at

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the big ideas in second grade through visualization, play, and investigation. During their work with tens of thousands of teachers, authors Jo Boaler, Jen Munson, and Cathy Williams heard the same message?that they want to incorporate more brain science into their math instruction, but they need guidance in the techniques that work best to get across the concepts they needed to teach. So, the authors designed Mindset Mathematics around the

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principle of active student inquiry, with tasks that reflect the latest brain science on learning. Open, creative, and visual math tasks have been shown to support student learning, and more importantly change their relationship with mathematics and start believing in their own potential. The tasks in Mindset Mathematics reflect the lessons from brain science that: There is no such thing as a math person and anyone can learn mathematics to

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high levels. Mistakes, struggle, and challenge are opportunities for brain growth. Speed is unimportant, and even counterproductive, in mathematics. Mathematics is a visual and beautiful subject, and our brains want to think visually about mathematics. With engaging questions, open-ended tasks, and four-color visuals that will help kids get excited about mathematics, Mindset Mathematics is organized around nine big ideas which emphasize the

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connections within the Common Core State Standards (CCSS) and can be used with any current curriculum.

Visualizing Environmental Science
John Wiley & Sons

The magnitude and rapidity of global environmental change threatens the perpetuation of life on Earth. Many aspects of this crisis are familiar to us - the destruction of tropical rainforests, the hole in the Antarctic ozone, desertification, soil erosion -

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yet we avoid the underlying challenge of a rapidly deteriorating ecological system and the breadth and complexity of responses demanded. Integrating an analysis of both social and environmental needs, the book explores the premises and problems of different paths towards global management. With its emphasis on flexible response, *Global Ecology* furthers our understanding of biospheric change and of our abilities and weaknesses in

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managing the transition to a sustainable society.

The 5th Edition of Visualizing Environmental Science provides students with a valuable opportunity to identify and connect the central issues of environmental science through a visual approach. Beautifully illustrated, this fifth edition shows students what the discipline is all about—its main concepts and applications—while also instilling an appreciation and

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excitement about the richness of the subject. This edition is thoroughly refined and expanded; the visuals utilize insights from research on student learning and feedback from users.

Science and the Global Environment
Optimistic Environmentalist, The
Visualizing Environmental Science,
Second Edition with Earth Pulse and
WileyPLUS Set
Straight Talk from the Frontline

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At Home in a Diverse World

Progressing Towards a Greener Future

Introduction to Sociology 2e adheres to the scope and sequence of a typical, one-semester introductory sociology course. It offers comprehensive coverage of core concepts, foundational scholars, and emerging theories, which are supported by a wealth of engaging learning materials. The textbook presents detailed section reviews with rich questions, discussions that help students apply their knowledge, and features

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that draw learners into the discipline in meaningful ways. The second edition retains the book's conceptual organization, aligning to most courses, and has been significantly updated to reflect the latest research and provide examples most relevant to today's students. In order to help instructors transition to the revised version, the 2e changes are described within the preface. The images in this textbook are grayscale. Authors include: Heather Griffiths, Nathan Keirns, Eric Strayer, Susan Cody-Rydzewski,

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***Gail Scaramuzzo, Tommy Sadler, Sally Vyain,
Jeff Bry, Faye Jones***

Visualizing Physical Geography employs uniquely designed visual pedagogy to help students acquire the skills they need to become better learners. The 2nd edition has refined and expanded the visuals using insights from research on student outcomes. The Visualizing approach uses a variety of research-based visuals to engage students so they become active participants in the learning process. Visualizing Physical

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Geography immerses students in course material through visuals (both in print and rich multimedia resources) while organizing complex processes and related course information into easily digestible segments. Visualizing Physical Geography is a comprehensive, modern book for today's physical geography course. With current examples, thorough coverage of geographers tools and technology, and a visual design that is accessible without sacrificing content, it is a title that will appeal to a broad range

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of instructors. The narrative and concepts are tightly linked to visual elements, including practical examples that highlight the relevance of the concepts. Maps are integrated throughout to help reveal patterns or trends. Divergent views and critical thinking are emphasized. Photographs and other visuals are also included to reinforce the concepts.

The treetops of the world's forests are where discovery and opportunity abound, however they have been relatively inaccessible until

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recently. This book represents an authoritative synthesis of data, anecdotes, case studies, observations, and recommendations from researchers and educators who have risked life and limb in their advocacy of the High Frontier. With innovative rope techniques, cranes, walkways, dirigibles, and towers, they finally gained access to the rich biodiversity that lives far above the forest floor and the emerging science of canopy ecology. In this new edition of Forest Canopies, nearly 60

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scientists and educators from around the world look at the biodiversity, ecology, evolution, and conservation of forest canopy ecosystems. -Comprehensive literature list -State-of-the-art results and data sets from current field work -Foremost scientists in the field of canopy ecology -Expanded collaboration of researchers and international projects -User-friendly format with sidebars and case studies -Keywords and outlines for each chapter

For many researchers, Python is a first-class

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tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating,

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transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and

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***manipulation of labeled/columnar data in
Python Matplotlib: includes capabilities for a
flexible range of data visualizations in Python
Scikit-Learn: for efficient and clean Python
implementations of the most important and
established machine learning algorithms
The Data Science Design Manual
Essential Tools for Working with Data
Data Science and Big Data Analytics
Visualizing Complexity
Visualizing Human Biology
Visualizing Data***

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Thoroughly revised and up-dated edition of a highly successful textbook. This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source

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of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction

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to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide

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range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data

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science television show "The Quant Shop" (www.quant-shop.com)

Constructs an original dialogue between constitutional law, film, and identity by using Hong Kong as a case study.

How we see and how we visualize: why the scientific account differs from our experience.

Visualizing Context in Design

Visualizing Environmental Science 2nd Edition with National Geographic Earth Pulse Set

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Introduction to Sociology 2e

Mindset Mathematics: Visualizing and
Investigating Big Ideas, Grade 2

Visualizing Physical Geography, 2nd
Edition

Visualizing Environmental Science,
Canadian Edition

Case Studies for Integrating Science and the
Global Environment is designed to help students
of the environment and natural resources make
the connections between their training in science
and math and today's complex environmental

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issues. The book provides an opportunity for students to apply important skills, knowledge, and analytical tools to understand, evaluate, and propose solutions to today's critical environmental issues. The heart of the book includes four major content areas: water resources; the atmosphere and air quality; ecosystem alteration; and global resources and human needs. Each of these sections features in-depth case studies covering a range of issues for each resource, offering rich opportunities to teach how various scientific disciplines help

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inform the issue at hand. Case studies provide readers with experience in interpreting real data sets and considering alternate explanations for trends shown by the data. This book helps prepare students for careers that require collaboration with stakeholders and co-workers from various disciplines. Includes global case studies using real data sets that allow readers to practice interpreting data and evaluating alternative explanations Focuses on critical skills and knowledge, encouraging readers to apply science and math to real world problems

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Employs a system-based approach, linking air, water, and land resources to help readers understand that cause-effect may be complex and solutions to environmental problems require multiple perspectives Includes special features such as links to video clips of scientists at work, boxed information, a solutions section at the end of each case study, and practice exercises

This volume brings together multiple perspectives on both the changing Arctic environment and the challenges and opportunities it presents for the shipping sector.

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It argues for the adoption of a forward-looking agenda that respects the fragile and changing Arctic frontier. With the accelerated interest in and potential for new maritime trade routes, commercial transportation and natural resource development, the pressures on the changing Arctic marine environment will only increase. The International Maritime Organization Polar Code is an important step toward Arctic stewardship. This new volume serves as an important guide to this rapidly developing agenda. Addressing a range of aspects, it offers

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a valuable resource for academics, practitioners, environmentalists and affected authorities in the shipping industry alike.

The second edition enables psychologists to gain a better understanding of what is unique and intriguing about this area of study. It follows a groundbreaking visual approach that helps them quickly and easily learn the subject. With numerous illustrations and graphics, the book brings complex concepts to life. The links between theory and application are also clearly presented. Psychologists will benefit from this

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visually-oriented look into the field because it's more engaging than other resources.

Visualizing Human Biology Lab Manual provides 18 labs specifically designed for the non-majors biology student, each of which engages students by focusing on the structure and function of each person's own unique body. The lab manual includes key experiments with step-by-step visual guides and more interesting, real world topics to connect with students' diverse experiences. Visuals are used to teach and explain, not just illustrate, and students with

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varied learning styles will be engaged. The applications of common laboratory techniques in science, medicine, and everyday life are also explored in each lab topic.

Visualizing Human Geography

Environmental Change and Social Flexibility

Visualizing Environmental Science, Second
Edition Binder Ready Version with Binder Set

It's Not what You Think

Visualizing Environmental Science

Visualizing Climate Change

Visualizing Human Biology is a visual exploration of the

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major concepts of biology using the human body as the context. Students are engaged in scientific exploration and critical thinking in this product specially designed for non-science majors. Topics covered include an overview of human anatomy and physiology, nutrition, immunity and disease, cancer biology, and genetics. The aim of Visualizing Human Biology is a greater understanding, appreciation and working knowledge of biology as well as an enhanced ability to make healthy choices and informed healthcare decisions. As virtual reality approaches mainstream consumer use, new research and innovations in the field have impacted how we view and can use this technology

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across a wide range of industries. Advancements in this technology have led to recent breakthroughs in sound, perception, and visual processing that take virtual reality to new dimensions. As such, research is needed to support the adoption of these new methods and applications. Cases on Immersive Virtual Reality Techniques is an essential reference source that discusses new applications of virtual reality and how they can be integrated with immersive techniques and computer resources. Featuring research on topics such as 3D modeling, cognitive load, and motion cueing, this book is ideally designed for educators, academicians, researchers, and students seeking coverage on the

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applications of collaborative virtual environments. Visualizing Human Geography: At Home in a Diverse World, Second Edition maximizes the use of photographs, maps and illustrations to bring the colorful diversity of Human cultures, political systems, food production, and migration into the undergraduate classroom. This text provides readers with an exciting approach to the subject, allowing them to see Human Geography as a dynamic and growing science and helping them move beyond the idea that geography is about memorization. Unique presentation of visuals facilitates reflection on the textual content of this text, providing a clear path to the understanding of key

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concepts. In its Second Edition, Visualizing Human Geography: At Home in a Diverse World includes improved coverage of migration and industry and new animations to support each chapter.

Informed Urban Transport Systems examines how information gathered from new technologies can be used for optimal planning and operation in urban settings. Transportation researchers, and those from related disciplines, such as artificial intelligence, energy, applied mathematics, electrical engineering and environmental science will benefit from the book's deep dive into the transportation domain, allowing for smarter technological solutions for modern

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transportation problems. The book helps create solutions with fewer financial, social, political and environmental costs for the populations they serve. Readers will learn from, and be able to interpret, the information and data collected from modern mobile and sensor technologies and understand how to use system optimization strategies using this information. The book concludes with an evaluation of the social and system impacts of modern transportation systems. Takes a fresh look at transportation systems analysis and design, with an emphasis on urban systems and information/data use Serves as a focal point for those in artificial intelligence and environmental science

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*seeking to solve modern transportation problems
Examines current analytical innovations that focus on
capturing, predicting, visualizing and controlling
mobility patterns Provides an overview of the
transportation systems benefitting from modern
technologies, such as public transport, freight services
and shared mobility service models, such as bike
sharing, peer-to-peer ride sharing and shared taxis*

Forest Canopies

Visualizing Psychology

*Exploring and Explaining Data with the Processing
Environment*

Visualizing Microbiology, Loose-Leaf Print Companion

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Classic and Emerging Mobility Methods toward Smart Cities

Wie lassen sich Statistiken in eine attraktive Informationsgrafik übersetzen? Wie werden komplexe Datensätze leicht verständlich dargestellt? Wie entstehen aus unstrukturierten Daten, narrative Diagramme? Dieses Handbuch für Informationsgestaltung erklärt, wie es geht. Nicole Lachenmeier und Darjan Hil stellen in einem illustrierten Leitfaden die Essenz ihrer umfangreichen Berufserfahrung vor: Ein modulares Designsystem mit 80 Elementen. Durch ihre systematische Entwurfsmethodik wird es jedem möglich, komplexe Sachverhalte attraktiv und aus unterschiedlichen Blickwinkeln zu visualisieren. An der

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Schnittstelle von Design, Journalismus, Kommunikation und Data Science eröffnet Visualizing Complexity neue Perspektiven auf den Umgang mit abstrakten Daten und lädt dazu ein, Informationsdesign selbst auszuprobieren.

Data Science and Big Data Analytics is about harnessing the power of data for new insights. The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source software. This book will help you: Become a contributor on a data science team Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a

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compelling story with data to drive business action Prepare for
EMC Proven Professional Data Science Certification

Corresponding data sets are available from the book's page at
Wiley which you can find on the Wiley site by searching for the
ISBN 9781118876138. Get started discovering, analyzing,
visualizing, and presenting data in a meaningful way today!

Our Ecological Footprint presents an internationally-acclaimed tool
for measuring and visualizing the resources required to sustain our
households, communities, regions and nations, converting the
seemingly complex concepts of carrying capacity, resource-use,
waste-disposal and the like into a graphic form that everyone can
grasp and use. An excellent handbook for community activists,
planners, teachers, students and policy makers.

Principles of Environmental Physics

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Case Studies for Integrating Science and the Global Environment

Our Ecological Footprint

Sustainable Shipping in a Changing Arctic

Reducing Human Impact on the Earth

Informed Urban Transport Systems