

Visualizing The Environment Canadian Edition

Visualizing Nutrition, Loose-Leaf Print Companion
Data-Driven Security
The Functional Art
Visualizing Environmental Science
Optimistic Environmentalist,
The Visualization Analysis and Design
Visualizing Weather and Climate
Information Visualization
The GOES-R Series
Set: Visualizing the Environment, Canadian Edition
High School Teacher's Implementation Kit
Exploring Geovisualization
Interactive Web-Based Data Visualization with R, plotly, and shiny
Visualizing the Environment
Visualizing Environmental Science, Canadian Edition
Set
Visualizing Environmental Science, 5th Edition
Human-Centered Visualization
Environments
Visualizing Environmental Science 2nd Edition with National Geographic Earth Pulse Set
WileyPlus
Blackboard Card for Visualizing the Environment, Canadian Edition
Visualization in Modern Cartography
Living in the Environment (WCS CAN) Set: University of Toronto: Visualizing the Environment, Canadian Edition with Botkin: Environmental Change
Custom
Visualizing Density
Visualizing Physical Geography, 2nd Edition
Visualizing Technology
Visualizing Human Geography
Visualizing Human Biology
Modeling the Environment
Visualizing Data
Visualizing Climate Change
Visualizing The Lifespan
Business Statistics
Set: Visualizing the Environment, Canadian Binder Ready Version W/ Teacher's Resource Guide Card
Visualizing Environmental Science
Hydrogeological Conceptual Site Models
Environment
Set: Visualizing the Environment, Canadian Edition with Teacher Resource
Redemption Card
GIS

Technology Applications in Environmental and Earth SciencesThe Big Book of DashboardsVisualizing Geology, 4th Edition

Visualizing Nutrition, Loose-Leaf Print Companion

Visualizing Nutrition teaches students to identify and connect the central elements of nutritional science using a visual approach. As students explore important nutrition topics, they are immersed in content that not only provides scientific understanding, but demonstrates relevance to their personal lives. Students are challenged and taught the decision-making skills needed to navigate the countless choices they will face in promoting their good health and preventing disease. Visualizing Nutrition's critical thinking approach with a solid underpinning of the scientific process empowers students to be knowledgeable consumers when faced with decisions about what to eat.

Data-Driven Security

Sophisticated interactive maps are increasingly used to explore information - guiding us through data landscapes to provide information and prompt insight and understanding. Geovisualization is an emerging domain that draws upon disciplines such as computer science, human-computer interaction design,

cognitive sciences, graphical statistics, data visualization, information visualization, geographic information science and cartography to discuss, develop and evaluate interactive cartography. This review and exploration of the current and future status of geovisualization has been produced by key researchers and practitioners from around the world in various cognate fields of study. The thirty-six chapters present summaries of work undertaken, case studies focused on new methods and their application, system descriptions, tests of their implementation, plans for collaboration and reflections on experiences of using and developing geovisualization techniques. In total, over 50 pages of color are provided in the book along with more than 250 color images on an enclosed CD-ROM.

The Functional Art

Instructors, looking for a better way to manage homework? Want to save time preparing for lectures? Would you like to help students develop stronger problem-solving skills? If so, eGrade Plus has the answers you need. eGrade Plus offers an integrated suite of teaching and learning resources, including an online version of Black's Business Statistics for Contemporary Decision Making, Fourth Edition Update, in one easy-to-use Web site. Organized around the essential activities you perform in class, eGrade Plus helps you: Create class presentation using a wealth of Wiley-provided resources. you may easily adapt, customize, and add to his content to meet the needs of your course. Automate the assigning and grading of

homework or quizzes by using Wiley-provided question banks, or by writing your own. Student results will be automatically graded and recorded in your gradebook. Track your students' progress. An instructor's gradebook allows you to analyze individual and overall class results to determine each student's progress and level of understanding. Administer your course. eGrade Plus can easily be integrated with another course management system, gradebook, or other resources you are using in your class. Provide students with problem-solving support. eGrade Plus can link homework problems to the relevant section of the online text, providing context-sensitive help. Best of all, instructors can arrange to have eGrade Plus packaged FREE with new copies of Business Statistics for Contemporary Decision Making, Fourth Edition Update. All instructors have to do is adopt the eGrade Plus version of this book and activate their eGrade Plus course.

Visualizing Environmental Science

Optimistic Environmentalist, The

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 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 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.

Visualization Analysis and Design

Visualizing Weather and Climate

Unlike any time before in our lives, we have access to vast amounts of free

information. With the right tools, we can start to make sense of all this data to see patterns and trends that would otherwise be invisible to us. By transforming numbers into graphical shapes, we allow readers to understand the stories those numbers hide. In this practical introduction to understanding and using information graphics, you'll learn how to use data visualizations as tools to see beyond lists of numbers and variables and achieve new insights into the complex world around us. Regardless of the kind of data you're working with—business, science, politics, sports, or even your own personal finances—this book will show you how to use statistical charts, maps, and explanation diagrams to spot the stories in the data and learn new things from it. You'll also get to peek into the creative process of some of the world's most talented designers and visual journalists, including Condé Nast Traveler's John Grimwade, National Geographic Magazine's Fernando Baptista, The New York Times' Steve Duenes, The Washington Post's Hannah Fairfield, Hans Rosling of the Gapminder Foundation, Stanford's Geoff McGhee, and European superstars Moritz Stefaner, Jan Willem Tulp, Stefanie Posavec, and Gregor Aisch. The book also includes a DVD-ROM containing over 90 minutes of video lessons that expand on core concepts explained within the book and includes even more inspirational information graphics from the world's leading designers. The first book to offer a broad, hands-on introduction to information graphics and visualization, *The Functional Art* reveals:

- Why data visualization should be thought of as “functional art” rather than fine art
- How to use color, type, and other graphic tools to make your information graphics more effective, not just

better looking • The science of how our brains perceive and remember information
• Best practices for creating interactive information graphics • A comprehensive look at the creative process behind successful information graphics • An extensive gallery of inspirational work from the world's top designers and visual artists

On the DVD-ROM: In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for aiding perception. You'll learn how to: incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose the appropriate type of graphic forms for your data. Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book. All of Peachpit's eBooks contain the same content as the print edition. You will find a link in the last few pages of your eBook that directs you to the media files. Helpful tips: If you are able to search the book, search for "Where are the lesson files?" Go to the very last page of the book and scroll backwards. You will need a web-enabled device or computer in order to access the media files that accompany this ebook. Entering the URL supplied into a computer with web access will allow you to get to the files. Depending on your device, it is possible that your display settings will cut off part of the URL. To make sure this is not the case, try reducing your font size and turning your device to a landscape view. This should cause the full URL to appear.

Information Visualization

The GOES-R Series

Visualizing Human Biology is a visual exploration of the 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.

Set: Visualizing the Environment, Canadian Edition High School Teacher's Implementation Kit

This book starts with an overview of GIS technology, what GIS technology is, what it can do, what software products are available, etc. Then, throughout the book, the author explains with many case studies, programs, maps, graphics, and 3D models how GIS and other related technologies can be used to automate mapping

processes, collect, process, edit, store, manage, and share datasets, statistically analyze data, model, and visualize large datasets to understand patterns, trends, and relationships to make educated decisions. This book is an excellent resource for anyone who is interested in GIS and related technologies, geology, natural resource, and environmental science.

Exploring Geovisualization

Learn How to Design Effective Visualization Systems Visualization Analysis and Design provides a systematic, comprehensive framework for thinking about visualization in terms of principles and design choices. The book features a unified approach encompassing information visualization techniques for abstract data, scientific visualization techniques

Interactive Web-Based Data Visualization with R, plotly, and shiny

Visualization in Modern Cartography explores links between the centuries-old discipline of cartography and today's revolutionary developments in scientific visualization. The book has three main goals: (1) to pass on design and symbolization expertise to the scientific visualization community - information that

comes from centuries of pre-computer visualization by cartographers, and their more recent experiences with computerizing the discipline; (2) to help cartographers cope with the dramatic shift from print cartography to a dynamic virtual cartography for which their role is changing from that of map designer to one of spatial information display (and/or interface) designer; (3) to illustrate the expanded role for cartography in geographic, environmental, planning, and earth science applications that comes with the development of interactive geographic visualization tools. To achieve these goals, the book is divided into three parts. The first sets the historical, cognitive, and technological context for geographic/cartographic visualization tool development. The second covers key technological, symbolization, and user interface issues. The third provides a detailed look at selected prototype geographic/cartographic visualization tools and their applications.

Visualizing the Environment

Visualizing Environmental Science, Canadian Edition

A single-source guide to harnessing the power of 3D visualization tools for analysis and representation of landscapes Current technology allows designers to model

environmental phenomena and space in new and exciting ways that go beyond the two-dimensional plane. The models, illustrations, and animations that can be created usher in a new paradigm of landscape representation that can become analytical tools as well as beautiful imagery. The text focuses on digital modeling methods that can be used to express rich environments using digital tools to develop, composite, and animate scenes. This full-color book provides coverage of 3D visualization tools for land planning and landscape architecture. The methods and theories in *Modeling the Environment* present landscape representation around a core set of ideas—scene, object, terrain, environment/atmosphere, time/dynamics, and the composite—that centers representation on human experience. Supported by www.lab.visual-logic.com, a website offering tutorials and forums, the text shows you how to use Autodesk 3ds Max to create dynamic landscape environments while also referring to a range of other tools including Google SketchUp, Autodesk Maya, and AutoCAD Civil 3D. It also demonstrates how to integrate 3D visualization tools into existing workflows, and offers critical coverage of intelligent drawings and representations, giving you a glimpse at the future of the profession. This book: Includes sections intended to build upon one another in order to understand the environment as a composite representation of multiple systems interacting Shows how to integrate 3D visualization tools into existing workflows, as opposed to offering an entirely new workflow Emphasizes modeling, animation, and simulation as both design analysis tools and presentation tools *Modeling the Environment* is essential reading for professionals in landscape

architecture, urban planning and design, architecture, and related disciplines who are looking to be at the forefront of technology.

Set

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 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.

Visualizing Environmental Science, 5th Edition

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 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.

Human-Centered Visualization Environments

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 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.

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

A reference for students, researchers, and environmental professionals, Hydrogeological Conceptual Site Models: Data Analysis and Visualization explains how to develop effective conceptual site models, perform advanced spatial data

analysis, and generate informative graphics for applications in hydrogeology and groundwater remediation. Written by expert practitioners, this full-color book illustrates how fundamental hydrogeological concepts are translated into quantitative, high-resolution computer visualizations. In addition, the authors discuss topics not typically covered in conventional textbooks, including GIS technology and the relationship between conceptual site models and environmental policy. *Advanced Methods for Data Analysis and Visualization* Featuring more than 500 color illustrations, this unique and visually powerful book outlines the required elements of a conceptual site model and provides numerous examples of supporting charts, cross-sections, maps, and 3D graphics. The authors describe advanced analytical methods such as geospatial processing, kriging, and groundwater modeling through practical real-life examples. They also present numerous case studies in groundwater supply and remediation to help explain key engineering design concepts. *Data-Driven Assessments of Groundwater Management Policy* The authors tackle controversial topics, ranging from technical impracticability of groundwater remediation to sustainable management of groundwater resources. They encourage discussion and independent thought about how current environmental policies and practices can evolve to achieve better outcomes at less cost to society. *Practical Strategies for Communicating Your Findings to the General Public* While the book is technical in nature, equations and advanced theory are kept to a minimum. The text focuses on practical strategies to help you create easy-to-understand data tables, graphs, maps, and

illustrations for technical and nontechnical audiences alike. A companion DVD includes animations, reference material, modeling software, and more.

WileyPlus Blackboard Card for Visualizing the Environment, Canadian Edition

Visualization in Modern Cartography

Living in the Environment

(WCS CAN) Set: University of Toronto: Visualizing the Environment, Canadian Edition with Botkin: Environmental Change Custom

"This is a book about what the science of perception can tell us about visualization. There is a gold mine of information about how we see to be found in more than a century of work by vision researchers. The purpose of this book is to extract from that large body of research literature those design principles that apply to

displaying information effectively"--

Visualizing Density

Visualizing Physical Geography, 2nd Edition

Visualizing Technology

Visualizing Geology, 4th Edition introduces students to geology and Earth system science through the distinctive mode of visual learning that is the hallmark of the Wiley Visualizing series. Readers learn that the geologic features we see and experience result from interactions among three grand cycles, which extend from Earth's core to the fringes of our atmosphere: the tectonic cycle, the rock cycle, and the water cycle.

Visualizing Human Geography

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 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 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.

Visualizing Human Biology

Visualizing the Lifespan will allow students to learn effectively by understanding the world around them and interpreting what they see in a meaningful and accurate way. The content, design, and layout of the title takes advantage of the full capacity in which students process information – visual as well as verbal.

Modeling the Environment

Climate change may be all around us, but it is often difficult to see. Carbon dioxide is 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). Nobody really knows what 2 or 4 of global warming might look like in their community. The causes of climate change that surround us are often only dimly perceived or concealed, and there are as yet few examples of effective community solutions that people can see.

Visualizing Data

Inspiring people to care about the planet. In the new edition of LIVING IN THE ENVIRONMENT, authors Tyler Miller and Scott Spoolman have partnered with the National Geographic Society to develop a text designed to equip students with the inspiration and knowledge they need to make a difference solving today's environmental issues. Exclusive content highlights important work of National Geographic Explorers, and features over 200 new photos, maps, and illustrations that bring course concepts to life. Using sustainability as the integrating theme, LIVING IN THE ENVIRONMENT 18e, provides clear introductions to the multiple environmental problems that we face and balanced discussions to evaluate

potential solutions. In addition to the integration of new and engaging National Geographic content, every chapter has been thoroughly updated and 18 new Core Case Studies offer current examples of present environmental problems and scenarios for potential solutions. The concept-centered approach used in the text transforms complex environmental topics and issues into key concepts that students will understand and remember. Overall, by framing the concepts with goals for more sustainable lifestyles and human communities, students see how promising the future can be and their important role in shaping it. offers additional exclusive National Geographic content, including high-quality videos on important environmental problems and efforts being made to address them. Team up with Miller/Spoolman's, *LIVING IN THE ENVIRONMENT* and the National Geographic Society to offer your students the most inspiring introduction to environmental science available! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Visualizing Climate Change

This tutorial book features an augmented selection of the material presented at the GI-Dagstuhl Research Seminar on Human-Centered Visualization Environments, HCVE 2006, held in Dagstuhl Castle, Germany in March 2006. It presents eight tutorial lectures that are the thoroughly cross-reviewed and revised versions of the summaries and findings presented and discussed at the seminar.

Visualizing The Lifespan

The definitive reference book with real-world solutions you won't find anywhere else The Big Book of Dashboards presents a comprehensive reference for those tasked with building or overseeing the development of business dashboards. Comprising dozens of examples that address different industries and departments (healthcare, transportation, finance, human resources, marketing, customer service, sports, etc.) and different platforms (print, desktop, tablet, smartphone, and conference room display) The Big Book of Dashboards is the only book that matches great dashboards with real-world business scenarios. By organizing the book based on these scenarios and offering practical and effective visualization examples, The Big Book of Dashboards will be the trusted resource that you open when you need to build an effective business dashboard. In addition to the scenarios there's an entire section of the book that is devoted to addressing many practical and psychological factors you will encounter in your work. It's great to have theory and evidenced-based research at your disposal, but what will you do when somebody asks you to make your dashboard 'cooler' by adding packed bubbles and donut charts? The expert authors have a combined 30-plus years of hands-on experience helping people in hundreds of organizations build effective visualizations. They have fought many 'best practices' battles and having endured bring an uncommon empathy to help you, the reader of this book, survive and thrive in the data visualization world. A well-designed dashboard can point out

risks, opportunities, and more; but common challenges and misconceptions can make your dashboard useless at best, and misleading at worst. The Big Book of Dashboards gives you the tools, guidance, and models you need to produce great dashboards that inform, enlighten, and engage.

Business Statistics

The richly illustrated Interactive Web-Based Data Visualization with R, plotly, and shiny focuses on the process of programming interactive web graphics for multidimensional data analysis. It is written for the data analyst who wants to leverage the capabilities of interactive web graphics without having to learn web programming. Through many R code examples, you will learn how to tap the extensive functionality of these tools to enhance the presentation and exploration of data. By mastering these concepts and tools, you will impress your colleagues with your ability to quickly generate more informative, engaging, and reproducible interactive graphics using free and open source software that you can share over email, export to pdf, and more. Key Features: Convert static ggplot2 graphics to an interactive web-based form Link, animate, and arrange multiple plots in standalone HTML from R Embed, modify, and respond to plotly graphics in a shiny app Learn best practices for visualizing continuous, discrete, and multivariate data Learn numerous ways to visualize geo-spatial data This book makes heavy use of plotly for graphical rendering, but you will also learn about other R packages that support

different phases of a data science workflow, such as tidy, dplyr, and tidyverse. Along the way, you will gain insight into best practices for visualization of high-dimensional data, statistical graphics, and graphical perception. The printed book is complemented by an interactive website where readers can view movies demonstrating the examples and interact with graphics.

Set: Visualizing the Environment, Canadian Binder Ready Version W/ Teacher's Resource Guide Card

"Visualizing Technology is always current and always engaging! With the highly visual design, students won't find pages of long paragraphs. Instead, they'll find a text written the way they are hardwired to think, with smaller sections of text that use images creatively for easier understanding and chapters that are organized as web articles with catchy headlines. Visualizing Technology 8e continues to provide a hands-on approach to learning computer concepts, where students learn a little and then apply what they are learning in a project, through a simulation, or by watching a Viz Clip video to dive deeper. Each chapter has two How-To projects, focused on Digital Literacy and Essential Job Skills, so that students are gaining the skills needed for professional and personal success. Within the etext, students are engaged through interactive surveys, currency updates, videos, IT Simulations, interactives, fun study tools, and flashcards with immediate feedback. With the

new Technology in the News feature, you can keep your class current every week. And with the new Think About It videos, students are encouraged to think critically about the impact of technology, beyond the convenience factors! The optimal way to experience Visualizing Technology is with MyLab IT. All of the instruction, practice, review, and assessment resources are in one place, allowing you to arrange your course from an instructional perspective that gives students a consistent, measurable learning experience from chapter to chapter"--

Visualizing Environmental Science

Provides information on the methods of visualizing data on the Web, along with example projects and code.

Hydrogeological Conceptual Site Models

Uncover hidden patterns of data and respond with countermeasures Security professionals need all the tools at their disposal to increase their visibility in order to prevent security breaches and attacks. This careful guide explores two of the most powerful data analysis and visualization. You'll soon understand how to harness and wield data, from collection and storage to management and analysis as well as visualization and presentation. Using a hands-on approach with real-

world examples, this book shows you how to gather feedback, measure the effectiveness of your security methods, and make better decisions. Everything in this book will have practical application for information security professionals. Helps IT and security professionals understand and use data, so they can thwart attacks and understand and visualize vulnerabilities in their networks. Includes more than a dozen real-world examples and hands-on exercises that demonstrate how to analyze security data and intelligence and translate that information into visualizations that make plain how to prevent attacks. Covers topics such as how to acquire and prepare security data, use simple statistical methods to detect malware, predict rogue behavior, correlate security events, and more. Written by a team of well-known experts in the field of security and data analysis. Lock down your networks, prevent hacks, and thwart malware by improving visibility into the environment, all through the power of data and Security Using Data Analysis, Visualization, and Dashboards.

Environment

This best-selling and richly illustrated book by landscape architect Julie Campoli and aerial photographer Alex S. MacLean helps planners, designers, public officials, and citizens better understand how residential density can help save energy, dollars, and the environment.

Set: Visualizing the Environment, Canadian Edition with Teacher Resource Redemption Card

The GOES-R Series: A New Generation of Geostationary Environmental Satellites introduces the reader to the most significant advance in weather technology in a generation. The world's new constellation of geostationary operational environmental satellites (GOES) are in the midst of a drastic revolution with their greatly improved capabilities that provide orders of magnitude improvements in spatial, temporal and spectral resolution. Never before have routine observations been possible over such a wide area. Imagine satellite images over the full disk every 10 or 15 minutes and monitoring of severe storms, cyclones, fires and volcanic eruptions on the scale of minutes. Introduces the GOES-R Series, with chapters on each of its new products Provides an overview of how to read new satellite images Includes full-color images and online animations that demonstrate the power of this new technology

GIS Technology Applications in Environmental and Earth Sciences

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 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.

The Big Book of Dashboards

Visualizing Weather and Climate Change will capture the reader's interest in weather and climate and then use that interest to engage them in activities that demonstrate the science that serves as the basis of the discipline. Sections such as *Eye on the Atmosphere* use beautiful imagery to help them see the atmosphere through the eyes of a meteorologist and ask scientific questions that place significant features in atmospheric context. It also includes expanded coverage of global change and recent phenomena. Chapter summaries, self-tests and critical thinking questions help prepare readers for quizzes and tests while the illustrated case studies offer a wide variety of in-depth examinations that address important issues in the field of environmental science.

Visualizing Geology, 4th Edition

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