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KEY=ANSWER - PONCE MCCARTY

INTRODUCTION TO CHEMISTRY

FOR STUDENTS IN NEBO SCHOOL DISTRICT

Designed for students in Nebo School District, this text covers the Utah State Core Curriculum for chemistry with few additional topics.

TEACHING AND LEARNING SCIENCE

A HANDBOOK

Greenwood "Teaching and Learning Science consists of 66 chapters written by more than 90 leading educators and scientists. The contributions are informed by cutting-edge theory and research and address numerous issues that are central to K-12 education." " The book is arranged according to themes that are central to science education: language and scientific literacy, home and school relationships, equity, new roles for teachers and students, connecting science to other areas of the curriculum, resources for teachers and learners, and science in the news. The authors address controversial topics such as evolution, and present alternative ways to think about teaching, learning, the outcomes of science education, and issues associated with high stakes testing. In addition, relationships between science and literacy are explored in terms of art and science, making sense of visuals in textbooks, reading, writing, children's literature, and uses of comics to represent science."-- Publisher's website.

UNSTOPPABLE

HARNESSING SCIENCE TO CHANGE THE WORLD

St. Martin's Press Just as World War II called an earlier generation to greatness, so the climate crisis is calling today's rising youth to action: to create a better future. In UNSTOPPABLE, Bill Nye crystallizes and expands the message for which he is best known and beloved. That message is that with a combination of optimism and scientific curiosity, all obstacles become opportunities, and the possibilities of our world become limitless. With a scientist's thirst for knowledge and an engineer's vision of what can be, Bill Nye sees today's environmental issues not as insurmountable, depressing problems but as chances for our society to rise to the challenge and create a cleaner, healthier, smarter world. We need not accept that transportation consumes half our energy, and that two-thirds of the energy you put into your car is immediately thrown away out the tailpipe. We need not accept that dangerous emissions are the price we must pay for a vibrant economy and a comfortable life. Above all, we need not accept that we will leave our children a planet that is dirty, overheated, and depleted of resources. As Bill shares his vision, he debunks some of the most persistent myths and misunderstandings about global warming. When you are done reading, you'll be enlightened and empowered. Chances are, you'll be smiling, too, ready to join Bill and change the world. In Unstoppable: Harnessing Science to Change the World, the New York Times bestselling author of Undeniable: Evolution and the Science of Creation and former host of "Bill Nye the Science Guy" issues a new challenge to today's generation: to make a cleaner, more efficient, and happier world. Praise for UNDENIABLE: "With his charming, breezy, narrative style, Bill empowers the reader to see the natural world as it is, not as some would wish it to be. He does it right. And, as I expected, he does it best." -Neil deGrasse Tyson, Ph.D, host of COSMOS "Bill Nye, 'the Science Guy,' has become a veritable cultural icon....[T]he title of his new book on evolution...[is] 'Undeniable,' because, yes, there are many Americans who still deny what Darwin and other scientists long ago proved." -Frank Bruni, The New York Times "With a jaunty bow tie and boyish enthusiasm, Bill Nye the Science Guy has spent decades decoding scientific topics, from germs to volcanoes, for television audiences....In his new book, Nye delights in how [evolution] helps to unlock the mysteries of everything from bumblebees to human origins to our place in the universe." -National Geographic "When it comes to Bill Nye, 'Science Guy' doesn't even begin to cover it. When he's not being summoned to act as a voice of reason for news outlets or leading meetings as CEO of the Planetary Society, he is living the life of a best-selling author....His recently published book, 'Undeniable: Evolution and the Science of Creation,' enlightens readers while using a conversational, educational tone. After all, it's his ability to break down even the most complicated topics into bite-size pieces that made him such a hit on his '90s children's show 'Bill Nye, the Science Guy.'" -The Boston Globe "Mr. Nye writes briskly and accessibly...[and] makes an eloquent case for evolution."-The Wall Street Journal "Because [Bill Nye is] a scientist, he has no doubts that the 'deniers' of evolution are flat wrong. And because he's a performer, his book is fun to read and easy to absorb." -The Washington Post "Ignite your inner scientist when Nye, known for delivering geeky intel with clarity and charm, takes on one of society's most hotly debated topics (yes, still)." -Time Out New York

EVERYTHING ALL AT ONCE

HOW TO UNLEASH YOUR INNER NERD, TAP INTO RADICAL CURIOSITY, AND SOLVE ANY PROBLEM

Rodale In the New York Times bestseller Everything All at Once, Bill Nye shows you how thinking like a nerd is the key to changing yourself and the world around you. Everyone has an inner nerd just waiting to be awakened by the right passion. In Everything All at Once, Bill Nye will help you find yours. With his call to arms, he wants you to examine every detail of the most difficult problems that look unsolvable—that is, until you find the solution. Bill shows you how to develop critical thinking skills and create change, using his “everything all at once” approach that leaves no stone unturned. Whether addressing climate change, the future of our society as a whole, or personal success, or stripping away the mystery of fire walking, there are certain strategies that get results: looking at the world with relentless curiosity, being driven by a desire for a better future, and being willing to take the actions needed to make change happen. He shares how he came to create this approach—starting with his Boy Scout training (it turns out that a practical understanding of science and engineering is immensely helpful in a capsizing canoe) and moving through the lessons he learned as a full-time engineer at Boeing, a stand-up comedian, CEO of The Planetary Society, and, of course, as Bill Nye The Science Guy. This is the story of how Bill Nye became Bill Nye and how he became a champion of change and an advocate of science. It's how he became The Science Guy. Bill teaches us that we have the power to make real change. Join him in... dare we say it... changing the world.

JACK AND THE GENIUSES

AT THE BOTTOM OF THE WORLD

Abrams New York Times bestselling authors Bill Nye the Science Guy and Gregory Mone take middle-grade readers on a scientific adventure in the launch of an exciting new chapter book series, Jack and the Geniuses. The perfect combination to engage and entertain readers, the series features real-world science along with action and a mystery that will leave kids guessing until the end, making these books ideal for STEM education. In the series opener, Jack and the Geniuses: At The Bottom of The World, readers meet Jack and his foster siblings, Ava and Matt, who are orphans. But they're not your typical kind of orphans—they're geniuses. Well, Ava and Matt are, which sometimes makes life difficult for twelve-year-old Jack. Ava speaks multiple languages and builds robots for fun, and Matt is into astronomy and a whiz at math. As for Jack, it's hard to stand out when he's surrounded by geniuses all the time. When the kids try to spy on Dr. Hank Witherspoon, one of the world's leading scientists, they end up working for him in his incredible laboratory. Soon, Hank and the kids travel to Antarctica for a prestigious science competition, but they find that all is not as it seems: A fellow scientist has gone missing, and so has any trace of her research. Could someone be trying to use her findings to win the contest? It's up to Jack, Ava, and Matt to find the missing scientist and discover who's behind it all—before it's too late. Integrating real science facts with humor and suspense, and featuring an ensemble cast of loveable boy and girl characters, this uniquely engaging series is an irresistible chemical reaction for middle-grade readers. With easy-to-read language presented in a fun, motivating, and accessible way, this series opener is a great book for both inquisitive kids and reluctant readers. The book also includes information about the science discussed and used to solve the mystery, as well as a cool science project about density that kids can do at home or in the classroom. Bill Nye's brand new talk show series for Netflix, "Bill Nye Saves the World" is set to launch in Spring 2017.

SCHOOL LIBRARY JOURNAL

SLJ.

IN THE DEEP BLUE SEA

JACK AND THE GENIUSES BOOK #2

Abrams New York Times-bestselling authors Bill Nye the Science Guy and Gregory Mone take middle-grade readers on a scientific adventure in Book 2 of the exciting new Jack and the Geniuses series. The series combines real-world science along with a mysterious adventure that will leave kids guessing until the end, making the books ideal for STEM education. In the second installment, In the Deep Blue Sea, Jack, his genius siblings Ava and Matt, and inventor Dr. Hank Witherspoon travel to the Hawaiian island home of Ashley Hawking, a technology billionaire. Hawking and engineer Rosa Morris have built a revolutionary electricity plant that harvests energy from the deep ocean, but someone has been sabotaging the project. In their search for the culprit, Jack and crew navigate an unusual world of characters and suspects, including Hawking and her obnoxiously intelligent son, Steven; a family of surfers who accuse the billionaire of trespassing on sacred land; an ex-Navy SEAL with a fondness for cat photos; and a cigar-chomping man who calls himself the Air-Conditioning King of Hawaii. Readers will learn about the mysteries of the deep ocean, the scientific process, and the potential of green energy as Jack and his brilliant siblings use all their brainpower to survive. Integrating real science facts with humor and suspense and featuring a multiethnic cast of boy and girl characters, this engaging series is an irresistible combination for middle-grade readers. With easy-to-read language presented in a fun and accessible way, these books are great for both inquisitive kids and reluctant readers. In the Deep Blue Sea: Jack and the Geniuses Book 2 includes information about the science discussed and used to solve the mystery, as well as a cool project that kids can do at home or in the classroom. Bill Nye's brand-new talk show series for Netflix, Bill Nye Saves the World, premieres on April 21, 2017.

U.S. ARMY WAR COLLEGE GUIDE TO NATIONAL SECURITY POLICY AND STRATEGY

DIANE Publishing

LEGISLATION AT WESTMINSTER

PARLIAMENTARY ACTORS AND INFLUENCE IN THE MAKING OF BRITISH LAW

Oxford University Press The Westminster parliament is a highly visible political institution, and one of its core functions is approving new laws. Yet Britain's legislative process is often seen as executive-dominated, and parliament as relatively weak. As this book shows, such impressions can be misleading. Drawing on the largest study of its kind for more than forty years, Meg Russell and Daniel Gover cast new light on the political dynamics that shape the legislative process. They provide a fascinating account of the passage of twelve government bills - collectively attracting more than 4000 proposed amendments - through both the House of Commons and House of Lords. These include highly contested changes such as Labour's identity cards scheme and the coalition's welfare reforms, alongside other relatively uncontroversial measures. As well as studying the parliamentary record and amendments, the study draws from more than 100 interviews with legislative insiders. Following introductory chapters about the Westminster legislative process, the book focuses on the contribution of distinct parliamentary 'actors', including the government, opposition, backbenchers, select committees, and pressure groups. It considers their behaviour in the legislative process, what they seek to achieve, and crucially how they influence policy decisions. The final chapter reflects on Westminster's influence overall, showing this to be far greater than commonly assumed. Parliamentary influence is asserted in various different ways - ranging from visible amendments to more subtle means of changing government's behaviour. The book's findings make an important contribution to understanding both British politics and the dynamics of legislative bodies more broadly. Its readability and relevance will appeal to both specialists and general readers with interests in politics and law, in the UK and beyond.

WHY EVOLUTION IS TRUE

OUP Oxford For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. Why Evolution is True weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.

SECRETS OF MENTAL MATH

THE MATHMAGICIAN'S GUIDE TO LIGHTNING CALCULATION AND AMAZING MATH TRICKS

Crown These simple math secrets and tricks will forever change how you look at the world of numbers. Secrets of Mental Math will have you thinking like a math genius in no time. Get ready to amaze your friends—and yourself—with incredible calculations you never thought you could master, as renowned “mathemagician” Arthur Benjamin shares his techniques for lightning-quick calculations and amazing number tricks. This book will teach you to do math in your head faster than you ever thought possible, dramatically improve your memory for numbers, and—maybe for the first time—make mathematics fun. Yes, even you can learn to do seemingly complex equations in your head; all you need to learn are a few tricks. You'll be able to quickly multiply and divide triple digits, compute with fractions, and determine squares, cubes, and roots without blinking an eye. No matter what your age or current math ability, Secrets of Mental Math will allow you to perform fantastic feats of the mind effortlessly. This is the math they never taught you in school.

UNDENIABLE

EVOLUTION AND THE SCIENCE OF CREATION

St. Martin's Press "Evolution is one of the most powerful and important ideas ever developed in the history of science. Every question it raises leads to new answers, new discoveries, and new smarter questions. The science of evolution is as expansive as nature itself. It is also the most meaningful creation story that humans have ever found."—Bill Nye Sparked by a controversial debate in February 2014, Bill Nye has set off on an energetic campaign to spread awareness of evolution and the powerful way it shapes our lives. In Undeniable: Evolution and the Science of Creation, he explains why race does not really exist; evaluates the true promise and peril of genetically modified food; reveals how new species are born, in a dog kennel and in a London subway; takes a stroll through 4.5 billion years of time; and explores the new search for alien life, including aliens right here on Earth. With infectious enthusiasm, Bill Nye shows that evolution is much more than a rebuttal to creationism; it is an essential way to understand how nature works—and to change the world. It might also help you get a date on a Saturday night.

TRANSMISSION ELECTRON MICROSCOPY

DIFFRACTION, IMAGING, AND SPECTROMETRY

Springer This text is a companion volume to Transmission Electron Microscopy: A Textbook for Materials Science by Williams and Carter. The aim is to extend the discussion of certain topics that are either rapidly changing at this time or that would benefit from more detailed discussion than space allowed in the primary text. World-renowned researchers have contributed chapters in their area of expertise, and the editors have carefully prepared these chapters to provide a uniform tone and treatment for this exciting material. The book features an unparalleled collection of color figures showcasing the quality and variety of chemical data that can be obtained from today's instruments, as well as key pitfalls to avoid. As with the previous TEM text, each chapter contains two sets of questions, one for self assessment and a second more suitable for homework assignments. Throughout the book, the style follows that of Williams & Carter even when the subject matter becomes challenging—the aim is always to make the topic understandable by first-year graduate students and others who are working in the field of Materials Science. Topics covered include sources, in-situ experiments, electron diffraction, Digital Micrograph, waves and holography, focal-series reconstruction and direct methods, STEM and tomography, energy-filtered TEM (EFTEM) imaging, and spectrum imaging. The range and depth of material makes this companion volume essential reading for the budding microscopist and a key reference for practicing researchers using these and related techniques.

UNDERSTANDING

ELECTRICITY

INTERACTIVE GENERAL CHEMISTRY ACHIEVE, 1-TERM ACCESS CODE

Interactive General Chemistry meets students where they are...with a general chemistry program designed for the way students learn. Achieve provides a new platform for Interactive General Chemistry, thoughtfully developed to engage students for better outcomes. Powerful data and analytics provide instructors with actionable insights on a platform that allows flexibility to align with a broad variety of teaching and learning styles and the exciting Interactive General Chemistry program! Whether a student's learning path starts with problem solving or with reading, Interactive General Chemistry delivers the learning experience he or she needs to succeed in general chemistry. Built from the ground up as a digital learning program, Interactive General Chemistry combines the Sapling Learning homework platform with a robust e-book with seamlessly embedded, multimedia-rich learning resources. This flexible learning environment helps students effectively and efficiently tackle chemistry concepts and problem solving. Student-centered development In addition to Macmillan's standard rigorous peer review process, student involvement was critical to the development and design of Interactive General Chemistry. Using extensive research on student study behavior and data collection on the resources and tools that most effectively promote understanding, we crafted this complete course solution to intentionally embrace the way that students learn. Digital-first experience Interactive General Chemistry was built from the ground up to take full advantage of the digital learning environment. High-quality multimedia resources—including Sapling interactives, PhET simulations, and new whiteboard videos by Tyler DeWitt—are seamlessly integrated into a streamlined, uncluttered e-book. Embedded links provide easy and efficient navigation, enabling students to link to review material and definitions as needed. Problems drive purposeful study Our research into students' study behavior showed that students learn best by doing--so with Interactive General Chemistry, homework problems are designed to be a front door for learning. Expanding upon the acclaimed Sapling homework--where every problem contains hints, targeted feedback, and detailed step-by-step solutions--embedded resources link problems directly to the multimedia-rich e-book, providing just-in-time support at the section and chapter level.

THE PERIODIC TABLE OF ELEMENTS COLORING BOOK

Gregory M. Friedlander & Associaets, P.C. A coloring book to familiarize the user with the Primary elements in the Periodic Table. The Periodic Table Coloring Book (PTCB) was received worldwide with acclaim. It is based on solid, proven concepts. By creating a foundation that is applicable to all science ("Oh yes, Hydrogen, I remember coloring it, part of water, it is also used as a fuel; I wonder how I could apply this to the vehicle engine I am studying...") and creating enjoyable memories associated with the elements science becomes accepted. These students will be interested in chemistry, engineering and other technical areas and will understand why those are important because they have colored those elements and what those elements do in a non-threatening environment earlier in life.

BRITISH BOOKS IN PRINT

WILLIAM BARTON ROGERS AND THE IDEA OF MIT

JHU Press Exploring the intersection of Rogers' educational philosophy and the rise of technical institutes in America, this biography offers a long-overdue account of the man behind MIT.

THE DEATH OF EXPERTISE

THE CAMPAIGN AGAINST ESTABLISHED KNOWLEDGE AND WHY IT MATTERS

Oxford University Press A cult of anti-expertise sentiment has coincided with anti-intellectualism, resulting in massively viral yet poorly informed debates ranging from the anti-vaccination movement to attacks on GMOs. As Tom Nichols shows in The Death of Expertise, there are a number of reasons why this has occurred-ranging from easy access to Internet search engines to a customer satisfaction

model within higher education.

PLEASED TO MEET ME

GENES, GERMS, AND THE CURIOUS FORCES THAT MAKE US WHO WE ARE

Simon and Schuster Why are you attracted to a certain "type?" Why are you a morning person? Why do you vote the way you do? From a witty new voice in popular science comes a life-changing look at what makes you you. "I can't believe I just said that." "What possessed me to do that?" "What's wrong with me?" We're constantly seeking answers to these fundamental human questions, and now, science has the answers. Clever, relatable, and revealing, this eye-opening narrative from Indiana University School of Medicine professor Bill Sullivan explores why we do the things we do through the lens of genetics, microbiology, psychology, neurology, and family history. From what we love (and hate) to eat and who we vote for in political elections to when we lose our virginity and why some people find drugs so addicting, this illuminating book uses the latest scientific research to unveil the secrets of what makes us tick. Filled with fascinating insights--including how experiences that haunted our grandparents echo in our DNA, why the bacteria in our guts mess with our minds, and whether there really is a "murder gene"--this revolutionary book explains the hidden forces shaping who we are, pointing us on a path to how we might become our best selves.

THE SOCIAL SHAPING OF TECHNOLOGY

HOW THE REFRIGERATOR GOT ITS HUM

Milton Keynes ; Philadelphia : Open University Press

WORLD MIGRATION REPORT 2020

United Nations Since 2000, IOM has been producing world migration reports. The World Migration Report 2020, the tenth in the world migration report series, has been produced to contribute to increased understanding of migration throughout the world. This new edition presents key data and information on migration as well as thematic chapters on highly topical migration issues, and is structured to focus on two key contributions for readers: Part I: key information on migration and migrants (including migration-related statistics); and Part II: balanced, evidence-based analysis of complex and emerging migration issues.

FAST FOOD NATION

THE DARK SIDE OF THE ALL-AMERICAN MEAL

Houghton Mifflin Harcourt Explores the homogenization of American culture and the impact of the fast food industry on modern-day health, economy, politics, popular culture, entertainment, and food production.

THE ORGANOMETALLIC CHEMISTRY OF THE TRANSITION METALS

John Wiley & Sons Fully updated and expanded to reflect recent advances, this Fourth Edition of the classic text provides students and professional chemists with an excellent introduction to the principles and general properties of organometallic compounds, as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications.

WHY WE NEED RELIGION

Oxford University Press "Stephen T. Asma argues that religion, like art, has direct access to our emotional lives in ways that science does not. Science can cause curiosity and wonder, but much emotional suffering and vulnerability is beyond the reach of scientific help. Unlike secular authors who praise religion's ethical and civilizing functions, Asma argues that its core value lies in its emotionally therapeutic power...Asma describes the way in which religion manages rage, play, lust, care grief, and so on. [This book] is a surprising and persuasive Darwinian defense of religious emotions and the cultural systems that manage them."--

THE GERMAN CHEMICAL INDUSTRY IN THE TWENTIETH CENTURY

Springer Science & Business Media In the twentieth century, dyes, pharmaceuticals, photographic products, explosives, insecticides, fertilizers, synthetic rubber, fuels, and fibers, plastics, and other products have flowed out of the chemical industry and into the consumer economies, war machines, farms, and medical practices of industrial societies. The German chemical industry has been a major site for the development and application of the science-based technologies that gave rise to these products, and has had an important role as exemplar, stimulus, and competitor in the international chemical industry. This volume explores the German chemical industry's scientific and technological dimension, its international connections, and its development after 1945. The authors relate scientific and technological change in the industry to evolving German political and economic circumstances, including two world wars, the rise and fall of National Socialism, the post-war division of Germany, and the emergence of a global economy. This book will be of interest to historians of modern Germany, to historians of science and technology, and to business and economic historians.

CHEMICAL ENGINEERING DESIGN

PRINCIPLES, PRACTICE AND ECONOMICS OF PLANT AND PROCESS DESIGN

Elsevier Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

BOWKER'S DIRECTORY OF VIDEOCASSETTES FOR CHILDREN 1999

Rr Bowker Llc

EBONY

EBONY is the flagship magazine of Johnson Publishing. Founded in 1945 by John H. Johnson, it still maintains the highest global circulation of any African American-focused magazine.

FORTHCOMING BOOKS

CRIMINOLOGY: THE KEY CONCEPTS

Routledge Criminology: The Key Concepts is an authoritative and comprehensive study guide and reference resource that will take you through all the concepts, approaches, issues and institutions central to the study of crime in contemporary society. Topics covered in this easy to use A-Z guide include: policing, sentencing and the justice system types of crime, including corporate crime, cybercrime, sex and hate crimes feminist, marxist and cultural approaches to criminology terrorism, state crime, war crimes and human rights social issues such as anti-social behaviour, domestic violence and pornography criminal psychology and deviance Fully cross-referenced, with extensive suggestions for further reading and in-depth study of the topics discussed, this is an essential reference guide for students of Criminology at all levels.

MACHINES AS THE MEASURE OF MEN

SCIENCE, TECHNOLOGY, AND IDEOLOGIES OF WESTERN DOMINANCE

Cornell University Press This new edition of what has become a standard account of Western expansion and technological dominance includes a new preface by the author that discusses how subsequent developments in gender and race studies, as well as global technology and politics, enter into conversation with his original arguments.

CRADLE TO CRADLE

REMAKING THE WAY WE MAKE THINGS

North Point Press A manifesto for a radically different philosophy and practice of manufacture and environmentalism "Reduce, reuse, recycle" urge environmentalists; in other words, do more with less in order to minimize damage. But as this provocative, visionary book argues, this approach perpetuates a one-way, "cradle to grave" manufacturing model that dates to the Industrial Revolution and casts off as much as 90 percent of the materials it uses as waste, much of it toxic. Why not challenge the notion that human industry must inevitably damage the natural world? In fact, why not take nature itself as our model? A tree produces thousands of blossoms in order to create another tree, yet we do not consider its abundance wasteful but safe, beautiful, and highly effective; hence, "waste equals food" is the first principle the book sets forth. Products might be designed so that, after their useful life, they provide nourishment for something new—either as "biological nutrients" that safely re-enter the environment or as "technical nutrients" that circulate within closed-loop industrial cycles, without being "downcycled" into low-grade uses (as most "recyclables" now are). Elaborating their principles from experience (re)designing everything from carpeting to corporate campuses, William McDonough and Michael Braungart make an exciting and viable case for change.

DAILY SCIENCE, GRADE 5

Evan-Moor Corporation Lesson plans and activities to teach science to elementary level students.

THEORY OF INTERNATIONAL POLITICS

McGraw-Hill Humanities, Social Sciences & World Languages Forfatterens mål med denne bog er: 1) Analyse af de gældende teorier for international politik og hvad der heri er lagt størst vægt på. 2) Konstruktion af en teori for international politik som kan kan råde bod på de mangler, der er i de nu gældende. 3) Afprøvning af den rekonstruerede teori på faktiske hændelsesforløb.

SCIENCE ON THE AIR

POPULARIZERS AND PERSONALITIES ON RADIO AND EARLY TELEVISION

University of Chicago Press Mr. Wizard's World. Bill Nye the Science Guy. NPR's Science Friday. These popular television and radio programs broadcast science into the homes of millions of viewers and listeners. But these modern series owe much of their success to the pioneering efforts of early-twentieth-century science shows like *Adventures in Science* and "Our Friend the Atom." *Science on the Air* is the fascinating history of the evolution of popular science in the first decades of the broadcasting era. Marcel Chotkowski LaFollette transports readers to the early days of radio, when the new medium allowed innovative and optimistic scientists the opportunity to broadcast serious and dignified presentations over the airwaves. But the exponential growth of listenership in the 1920s, from thousands to millions, and the networks' recognition that each listener represented a potential consumer, turned science on the radio into an opportunity to entertain, not just educate. *Science on the Air* chronicles the efforts of science popularizers, from 1923 until the mid-1950s, as they negotiated topic, content, and tone in order to gain precious time on the air. Offering a new perspective on the collision between science's idealistic and elitist view of public communication and the unbending economics of broadcasting, LaFollette rewrites the history of the public reception of science in the twentieth century and the role that scientists and their institutions have played in both encouraging and inhibiting popularization. By looking at the broadcasting of the past, *Science on the Air* raises issues of concern to all those who seek to cultivate a scientifically literate society today.

CREATIVITY IN THE CLASSROOM

SCHOOLS OF CURIOUS DELIGHT

Taylor & Francis The fourth edition of this well-known text continues the mission of its predecessors "to help teachers link creativity research and theory to the everyday activities of classroom teaching. Part I (chs 1-5) includes information on models and theories of creativity, characteristics of creative people, and talent development. Part II (chapters 6-10) includes strategies explicitly designed to teach creative thinking, to weave creative thinking into content area instruction, and to organize basic classroom activities (grouping, lesson planning, assessment, motivation and classroom organization) in ways that support students' creativity. Changes in this Edition: Improved Organization -- This edition has been reorganized from 8 to 10 chapters allowing the presentation of theoretical material in clearer, more manageable chunks. New Material -- In addition to general updating, there are more examples involving middle and secondary school teaching, more examples linking creativity to technology, new information on the misdiagnosis of creative students as ADHD, and more material on cross-cultural concepts of creativity, collaborative creativity, and linking creativity to state standards. Pedagogy & Design -- Chapter-opening vignettes, within-chapter reflection questions and activities, sample lesson ideas from real teachers, and end-of-chapter journaling activities help readers adapt content to their own teaching situations. Also, a larger trim makes the layout more open and appealing and a single end-of-book reference section makes referencing easier. Targeted specifically to educators (but useful to others), this book is suitable for any course that deals wholly or partly with creativity in teaching, teaching the gifted and talented, or teaching thinking and problem solving. Such courses are variously found in departments of special education, early childhood education, curriculum and instruction, or educational psychology.

GLOBAL ENVIRONMENTAL CHANGE

UNDERSTANDING THE HUMAN DIMENSIONS

National Academies Press Global environmental change often seems to be the most carefully examined issue of our time. Yet understanding the human side—human causes of and responses to environmental change—has not yet received sustained attention. *Global Environmental Change* offers a strategy for combining the efforts of natural and social scientists to better understand how our actions influence global change and how global change influences us. The volume is accessible to the nonscientist and provides a wide range of examples and case studies. It explores how the attitudes and actions of individuals, governments, and organizations intertwine to leave their mark on the health of the planet. The book focuses on establishing a framework for this new field of study, identifying problems that must be overcome if we are to deepen our understanding of the human dimensions of global change, presenting conclusions and recommendations.

BOOKSELLER AND THE STATIONERY TRADES' JOURNAL

RECENT ADVANCES IN IRON CATALYSIS

Transition metal-catalyzed reactions play a key role in many transformations of synthetic organic chemistry. For most of these reactions, noble metals, for example, palladium, have been used as catalysts. Over the last two decades, more and more first row transition metals have been applied as catalysts for organic reactions, with iron taking the center stage. The driving forces behind this development are not only the high costs for the noble metals but also their toxicity. Iron is the most abundant transition metal in the Earth's crust, and thus, it is considerably cheaper than the precious noble metals. Moreover, iron compounds are involved in many biological processes, and thus, iron exhibits a low toxicity. Because of this low toxicity, iron-catalyzed reactions are important for an environmentally benign sustainable chemistry. However, iron catalysts are not only investigated to replace noble metals; they offer many applications in synthesis beyond those of classical noble metal catalysts. Several articles of the present book emphasize the complementarity of iron-catalyzed reactions as compared to reactions catalyzed by noble metals. The book shows intriguing recent developments and the current standing of iron-catalyzed reactions as well as applications to organic synthesis.