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KEY=LASTRONAVE - GRIMES ALEXIA

Energia per l'astronave Terra. L'era delle rinnovabili

Chiavi di lettura

EFFETTO DOMINO - Gioco d'azzardo con l'eredità dei figli

Youcanprint Questo libro nasce a partire dalla Rubrica Ambiente dei Giovani Democratici di Bergamo: delle pillole settimanali di approfondimento ambientale che si ponevano l'obiettivo di sensibilizzare le coscienze. Di conseguenza, pur configurandosi come un trattato, questo libro adotta un taglio politico con approfondimenti economici e sociali. Così facendo sarà dato modo al lettore di costruire la propria coscienza individuale e inserirsi come parte attiva di una coscienza collettiva decisa a preservare il nostro futuro. Dove possibile, lungo tutto il libro, si sono fatti dei parallelismi tra le problematiche su più ampia scala e il contesto italiano, arrivando anche a focalizzarci sulla bergamasca, poiché riteniamo sia un modo efficace per rendere un'idea concreta di come lo stress ambientale stia bussando a casa di ognuno di noi, in cerca di aiuto.

I tempi stanno cambiando. Clima, scienza, politica

E/O Edizioni Piccola guida ambientalista per umani consapevoli in questo tempo incandescente Nell'ultimo mezzo secolo la temperatura della Terra è aumentata a una velocità senza uguali negli ultimi duemila anni, come il livello dei mari e come le concentrazioni di gas serra in atmosfera, le più alte da due milioni di anni. Sono i frutti rischiosi dell'Antropocene, l'epoca della nostra più profonda e pesante presenza sul pianeta. Ora, però, il clima si è impadronito del tempo, della Storia, e ogni cosa sta cambiando. Solo una radicale conversione ecologica ed economica, che ispiri una vera transizione energetica, può farci entrare in un'epoca nuova di sintonia con la Terra.

Photoluminescent Materials and Electroluminescent Devices

Springer The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

The Third Industrial Revolution

How Lateral Power Is Transforming Energy, the Economy, and the World

St. Martin's Press The Industrial Revolution, powered by oil and other fossil fuels, is spiraling into a dangerous endgame. The price of gas and food are climbing, unemployment remains high, the housing market has tanked, consumer and government debt is soaring, and the recovery is slowing. Facing the prospect of a second collapse of the global economy, humanity is desperate for a sustainable economic game plan to take us into the future. Here, Jeremy Rifkin explores how Internet technology and renewable energy are merging to create a powerful "Third Industrial Revolution." He asks us to imagine hundreds of millions of people producing their own green energy in their homes, offices, and factories, and sharing it with each other in an "energy internet," just like we now

create and share information online. Rifkin describes how the five-pillars of the Third Industrial Revolution will create thousands of businesses, millions of jobs, and usher in a fundamental reordering of human relationships, from hierarchical to lateral power, that will impact the way we conduct commerce, govern society, educate our children, and engage in civic life. Rifkin's vision is already gaining traction in the international community. The European Union Parliament has issued a formal declaration calling for its implementation, and other nations in Asia, Africa, and the Americas, are quickly preparing their own initiatives for transitioning into the new economic paradigm. The Third Industrial Revolution is an insider's account of the next great economic era, including a look into the personalities and players — heads of state, global CEOs, social entrepreneurs, and NGOs — who are pioneering its implementation around the world.

Powering Planet Earth

Energy Solutions for the Future

John Wiley & Sons In their book Nicola Armaroli, Vincenzo Balzani and Nick Serpone uncover the background details associated with a transition to sustainable energy production that are routinely swept under the table in public discussions. They are not only concerned with the (alleged) advantages and disadvantages of any one energy generation technology from a technical viewpoint, but also with the ecological, economic, political and social consequences of an inevitable transition. In a highly readable manner aimed at an international audience, the authors introduce the often misused and sometimes abused term 'energy' and give a lucid account of the development of energy production from timber to nuclear energy and renewable energies. They compare various energy generation methods with respect to their efficiency and practicability for large-scale implementation and examine if, and how, these methods live up to the expectations and promises their proponents make. In addition, the authors juxtapose the political and economic prerequisites in different regions of the world that advance, or hinder, an energy turnaround. They round off their book by debunking the seventeen most popular myths often cited in discussions on energy issues. As a result, the authors provide ammunition for debate, underpin (and unsettle) opinions using facts, and challenge comfortable and popular chains of reasoning.

The Nuclear Environmentalist

Is There a Green Road to Nuclear Energy?

Springer Science & Business Media This book explains how society will face an energy crisis in the coming decades owing to increasing scarcity of fossil fuels and climate change impacts. It carefully explores this coming crisis and concisely examines all of the major technologies related to energy production (fossil fuels, renewables, and nuclear) and their impacts on our society and environment. The author argues that it is wrong to pit alternatives to fossil fuels against each other and proposes that nuclear energy, although by no means free of problems, can be a viable source of reliable and carbon-free electricity. He concludes by calling for a diversified and rational mix of electricity generation in order to mitigate the effects of the energy crisis. Throughout, the book is spiced with science, history, and anecdotes in a way that ensures rewarding reading without loss of rigor.

Molecular Machines

Springer Science & Business Media The chapters in this volume describe bottom-up strategies and chronicle cutting-edge advances from several of the world's leading laboratories engaged in the development of molecular machines. The Nobel Prize in Chemistry 2016 was awarded jointly to Jean-Pierre Sauvage, Sir J. Fraser Stoddart and Bernard L. Feringa "for the design and synthesis of molecular machines". Both Jean-Pierre Sauvage and Sir J. Fraser Stoddart have also contributed to this book.

The Day After Roswell

Simon and Schuster Since 1947, the mysterious crash of an unidentified aircraft at Roswell, New Mexico, has fueled a firestorm of speculation and controversy with no conclusive evidence of its extraterrestrial origin -- until now. Colonel Philip J. Corso (Ret.), a member of President Eisenhower's National Security Council and former head of the Foreign Technology Desk at the U.S. Army's Research & Development department, has come forward to tell the whole explosive story. Backed by documents newly declassified through the Freedom of Information Act, Colonel Corso reveals for the first time his personal stewardship of alien artifacts from the crash, and discloses the U.S. government's astonishing role in the Roswell incident: what was found, the cover-up, and how these alien artifacts changed the course of 20th century history.

Il cinema di cartone (animato)

150 anni di magia da Topolino, Braccobaldo e Betty

Boop ai Puffi, l'Era glaciale, Shrek, Cattivissimo me...

Infinito Edizioni Il primo cartone animato, del 1906, porta la firma del fumettista Winsor McCay, che realizzò i quattro minuti della dinosauro Gertie. All'origine del cartoon però c'è un brevetto, registrato a Parigi: il Praxinoscope. L'inventore era Charles Émile Reynaud, l'anno il 1877. Ma 14.000 anni prima, nelle grotte di Altamira, in Spagna, un nostro antenato aveva disegnato sulla roccia 25

scene in successione per ricostruire il movimento di una mandria di bisonti! Steamboat Willie, in italiano Willie del vapore (novembre 1928), è il primo cartoon famoso (e sonoro) della storia e segna il debutto di Topolino. Da allora i cartoon hanno fatto progressi da gigante. Da Topolino e Paperino a Braccobaldo, Biancaneve, Betty Boop, Braccio di Ferro, passando per Wile Coyote e Beep-beep, Tom e Jerry, Mazinga, Goldrake, Candy Candy, i Flintstones, i Simpson, fino ai Puffi, l'Era Glaciale, Shrek, Cattivissimo me, Toy Story e ai webtoon, questo è il libro più completo della storia sulla Storia, i personaggi, i retroscena, i miti e le fortune dell'universo magico dei cartoni animati! "Quello di Roberto Ormanni è un libro che coniuga rigore storico e semplicità, è un arricchimento culturale e artistico che ci permette, attraverso storie e aneddoti, di comprendere la tradizione e di superarla con nuovi stili e proposte..." (Maurizio Forestieri, animatore, regista e insegnante al Centro Sperimentale di Cinematografia di Roma)

The Hydrogen Revolution

a blueprint for the future of clean energy

Hachette UK A Financial Times BEST BOOKS OF 2021 'Engaging, authoritative and very timely. Marco Alverà spells Hydrogen's critical role as an energy store in the clean power transition' - Mike Berners-Lee, author of THERE IS NO PLANET B Picture this: It's 2050. The looming shadow of climate change is finally receding. The planet's temperature is stabilising. Rainforests and coral reefs beginning to thrive once more. We are returning to equilibrium with nature. This isn't wishful thinking; it can be our reality. We just need to embrace hydrogen: the missing link. The beauty of hydrogen is its simplicity. It's simple to make, and simple to use. You are essentially bottling sunlight from renewable energy sources in the form of hydrogen, and using it to bring clean energy to every corner of the globe. The best part about hydrogen is that when you use it, the only by-product is water. As energy expert Marco Alverà explains, if we're going to heal the climate, we need to start thinking big. This book is the blueprint for how to get us there. Whether you are a policy maker, a business person, an activist, or simply curious, the message is this: there is hope, for us and our planet. Hydrogen can help save the world.

Energy for a Sustainable World

From the Oil Age to a Sun-Powered Future

John Wiley & Sons An easy read, balancing the pros and cons, this book surveys the energy issue from a broad scientific perspective while considering environmental, economic, and social factors. It explains the basic concepts, provides a historical overview of energy resources, assesses our unsustainable energy system based on fossil fuels, and shows that the energy crisis is not only a tough challenge, but also an unprecedented opportunity to become more concerned about the world in which we live and the society we have built up. By outlining the alternatives for today and the future, it gives an extensive overview on nuclear energy, solar thermal and photovoltaics, solar fuels, wind power, ocean energies and other renewables, highlighting the increasing importance of electricity and the long-term perspectives of a hydrogen-based economy. An excellent source of updated and carefully documented information on the entangled aspects of the energy issue, this book is a guide for scientists, students and teachers looking for ways out of the energy and climate crisis, and the problems and disparities generated during the fossil fuel era.

Photochemistry and Photophysics

Concepts, Research, Applications

John Wiley & Sons This textbook covers the spectrum from basic concepts of photochemistry and photophysics to selected examples of current applications and research. Clearly structured, the first part of the text discusses the formation, properties and reactivity of excited states of inorganic and organic molecules and supramolecular species, as well as experimental techniques. The second part focuses on the photochemical and photophysical processes in nature and artificial systems, using a wealth of examples taken from applications in nature, industry and current research fields, ranging from natural photosynthesis, to photomedicine, polymerizations, photoprotection of materials, holography, luminescence sensors, energy conversion, and storage and sustainability issues. Written by an excellent author team combining scientific experience with didactical writing skills, this is the definitive answer to the needs of students, lecturers and researchers alike going into this interdisciplinary and fast growing field.

The Truth about Professor Smith

CIDEB/Black Cat Publishing

The Life of Vittorio Alfieri

The Nation of Plants

Other Press, LLC In this playful yet informative manifesto, a leading plant neurobiologist presents the eight fundamental pillars on which the life of plants—and by extension, humans—rests. Even if they behave as though they were, humans are not the masters of the Earth, but only one of its most irksome residents. From the moment of their arrival, about three hundred thousand years ago—nothing when compared to the history of life on our planet—humans have succeeded in changing the conditions of the planet so

drastically as to make it a dangerous place for their own survival. The causes of this reckless behavior are in part inherent in their predatory nature, but they also depend on our total incomprehension of the rules that govern a community of living beings. We behave like children who wreak havoc, unaware of the significance of the things they are playing with. In *The Nation of Plants*, the most important, widespread, and powerful nation on Earth finally gets to speak. Like attentive parents, plants, after making it possible for us to live, have come to our aid once again, giving us their rules: the first Universal Declaration of Rights of Living Beings written by the plants. A short charter based on the general principles that regulate the common life of plants, it establishes norms applicable to all living beings. Compared to our constitutions, which place humans at the center of the entire juridical reality, in conformity with an anthropocentrism that reduces to things all that is not human, plants offer us a revolution.

Etty

The Letters and Diaries of Etty Hillesum, 1941-1943

Wm. B. Eerdmans Publishing In the midst of the horrors of the Nazi Holocaust, Etty's writings reveal a young Jewish woman who celebrated life and remained an undaunted example of courage, sympathy, and compassion. Through this splendid translation by Arnold J. Pomerans, commissioned by the Etty Hillesum Foundation, readers everywhere will resonate with the spirit of this amazing young woman.

Daily Life at Versailles in the Seventeenth and Eighteenth Centuries

Macmillan Publishing Company Recounts the history of Versailles from its humble beginnings as a remote village and describes the daily court activities during the 3 reigns

The Children's Train

A Novel

HarperCollins "The innocence of childhood collides with the stark aftermath of war in this wrenching and ultimately redemptive tale of family, seemingly impossible choices, and the winding paths to destiny, which sometimes take us to places far beyond our imaginings." - Lisa Wingate, #1 New York Times Bestselling Author of *Before We Were Yours* and *The Book of Lost Friends* "Ardone's beautifully crafted story explores the meaning of identity and belonging...recommended to fans of Elena Ferrante's Neapolitan novels." - *The Library Journal* "[The Children's Train] leaves you with a great sense of the importance of family and the tough decisions that must be faced as a result of that love." - *Shelf Awareness* Based on true events, a heartbreaking story of love, family, hope, and survival set in post-World War II Italy—written with the heart of *Orphan Train* and *Before We Were Yours*—about poor children from the south sent to live with families in the north to survive deprivation and the harsh winters. Though Mussolini and the fascists have been defeated, the war has devastated Italy, especially the south. Seven-year-old Amerigo lives with his mother Antonietta in Naples, surviving on odd jobs and his wits like the rest of the poor in his neighborhood. But one day, Amerigo learns that a train will take him away from the rubble-strewn streets of the city to spend the winter with a family in the north, where he will be safe and have warm clothes and food to eat. Together with thousands of other southern children, Amerigo will cross the entire peninsula to a new life. Through his curious, innocent eyes, we see a nation rising from the ashes of war, reborn. As he comes to enjoy his new surroundings and the possibilities for a better future, Amerigo will make the heartbreaking choice to leave his mother and become a member of his adoptive family. Amerigo's journey is a moving story of memory, indelible bonds, artistry, and self-exploration, and a soaring examination of what family can truly mean. Ultimately Amerigo comes to understand that sometimes we must give up everything, even a mother's love, to find our destiny. Translated from the Italian by Clarissa Botsford

Performer Shaping Ideas. Idee Per Imparare. Per Le Scuole Superiori

The Green New Deal

Why the Fossil Fuel Civilization Will Collapse by 2028, and the Bold Economic Plan to Save Life on Earth

St. Martin's Press An urgent plan to confront climate change, transform the American economy, and create a green post-fossil fuel culture. A new vision for America's future is quickly gaining momentum. Facing a global emergency, a younger generation is spearheading a national conversation around a Green New Deal and setting the agenda for a bold political movement with the potential to revolutionize society. Millennials, the largest voting bloc in the country, are now leading on the issue of climate change.

While the Green New Deal has become a lightning rod in the political sphere, there is a parallel movement emerging within the business community that will shake the very foundation of the global economy in coming years. Key sectors of the economy are fast-decoupling from fossil fuels in favor of ever cheaper solar and wind energies and the new business opportunities and employment that accompany them. New studies are sounding the alarm that trillions of dollars in stranded fossil fuel assets could create a carbon bubble likely to burst by 2028, causing the collapse of the fossil fuel civilization. The marketplace is speaking, and governments will need to adapt if they are to survive and prosper. In *The Green New Deal*, New York Times bestselling author and renowned economic theorist Jeremy Rifkin delivers the political narrative and economic plan for the Green New Deal that we need at this critical moment in history. The concurrence of a stranded fossil fuel assets bubble and a green political vision opens up the possibility of a massive shift to a post-carbon ecological era, in time to prevent a temperature rise that will tip us over the edge into runaway climate change. With twenty-five years of experience implementing Green New Deal-style transitions for both the European Union and the People's Republic of China, Rifkin offers his vision for how to transform the global economy and save life on Earth.

Four Laws That Drive the Universe

OUP Oxford The laws of thermodynamics drive everything that happens in the universe. From the sudden expansion of a cloud of gas to the cooling of hot metal, and from the unfurling of a leaf to the course of life itself - everything is directed and constrained by four simple laws. They establish fundamental concepts such as temperature and heat, and reveal the arrow of time and even the nature of energy itself. Peter Atkins' powerful and compelling introduction explains what the laws are and how they work, using accessible language and virtually no mathematics. Guiding the reader from the Zeroth Law to the Third Law, he introduces the fascinating concept of entropy, and how it not only explains why your desk tends to get messier, but also how its unstoppable rise constitutes the engine of the universe.

The Periodic Kingdom

A Journey Into the Land of the Chemical Elements

Hachette UK A 'travel guide' to the periodic table, explaining the history, geography and the rules of behaviour in this imagined land. *The Periodic Kingdom* is a journey of imagination in which Peter Atkins treats the periodic table of elements - the 109 chemical elements in the world, from which everything is made - as a country, a periodic kingdom, each region of which corresponds to an element. Arranged much like a travel guide, the book introduces the reader to the general features of the table, the history of the elements, and the underlying arrangement of the table in terms of the structure and properties of atoms. Atkins sees elements as finely balanced living personalities, with quirks of character and certain, not always outward, dispositions, and the kingdom is thus a land of intellectual satisfaction and infinite delight.

Chemistry

Reading and Writing the Book of Nature

Royal Society of Chemistry Many people are convinced that, among other courses taught in schools, chemistry is a difficult and complex subject. This book sets out to introduce chemistry concepts and demystify chemistry showing how it is a major part of our everyday lives. It introduces the readers into the wonderful world of atoms and molecules and chemical reactions whilst showing that chemistry is centrally important but also an emerging science and defines what the practising chemist does. The book also examines curiosity, creativity, fascination, poetry, beauty, and ethics in science. The concepts of chemistry are to be understood first and then learned. Accordingly, the book presents arguments and suggestions to be considered when teaching chemistry in secondary schools, together with a simple teaching approach so that students can understand and come to appreciate the language of chemistry and its experimental practices. Originally published in Italian, 'Chimica - leggere e scrivere il libro della Natura' was among the finalists of the 2013 Italian Award for popularization of science. The English translation has been sensitively achieved to enable the book to reach young students and teachers of chemistry in a positive way.

Photochemistry and Photophysics of Coordination Compounds I

Springer This book presents critical reviews of the current position and future trends in modern chemical research. It offers short and concise reports on chemistry, each written by world renowned experts.

The Notebook

Verso Books Thought-provoking and lyrical, *The Notebook* records the last year in the life of José Saramago. In these pages, beginning on the eve of the 2008 US presidential election, he evokes life in his beloved city of Lisbon, revisits conversations with friends, and meditates on his favorite authors. Precise observations and moments of arresting significance are rendered with pointillist detail, and together demonstrate an acute understanding of our times. Characteristically critical and uncompromising, Saramago dissects the financial crisis, deplores Israel's punishment of Gaza, and reflects on the rise of Barack Obama. *The Notebook* is a unique journey into the personal and political world of one of the greatest writers of our time.

The Earth Chronicles Expeditions

Simon and Schuster Reveals the course of archaeological adventures and insights that resulted in The Earth Chronicles series • Explores links between the Old world and the New in search of evidence of extraterrestrial gods in the artifacts and murals of ancient civilizations • Reveals archaeological cover-ups concerning Olmec origins in Mexico and ancient UFO artifacts in Turkey In this autobiographical book, the internationally acclaimed author Zecharia Sitchin reveals the foundational research and the adventurous expeditions that resulted in his writing the bestselling The Earth Chronicles series. Ranging from Mayan temples in Mexico to hidden artifacts in Istanbul, Turkey, from biblical tunnels in Jerusalem to the mysteries of Mt. Sinai, from the abode of a Sumerian goddess to Greek islands, the Expeditions' destinations and amazing discoveries unmasked established fallacies, detected the fate of mysterious artifacts, and revealed ancient connections to modern space facilities. For the first time, Sitchin shares with the reader not only his encompassing knowledge of antiquity and his field experiences, but also the concrete evidence for his conclusions that ancient myths were recollections of factual events, that the gods of ancient peoples were visitors to Earth from another planet, and that we are not alone in our own solar system. Accompanied by photographs from his personal archive, here is Sitchin's own story and his inner feelings about the cord that binds him to his ancestral past.

Extracted

How the Quest for Mineral Wealth Is Plundering the Planet

Chelsea Green Publishing As we dig, drill, and excavate to unearth the planet's mineral bounty, the resources we exploit from ores, veins, seams, and wells are gradually becoming exhausted. Mineral treasures that took millions, or even billions, of years to form are now being squandered in just centuries—or sometimes just decades. Will there come a time when we actually run out of minerals? Debates already soar over how we are going to obtain energy without oil, coal, and gas. But what about the other mineral losses we face? Without metals, and semiconductors, how are we going to keep our industrial system running? Without mineral fertilizers and fuels, how are we going to produce the food we need? Ugo Bardi delivers a sweeping history of the mining industry, starting with its humble beginning when our early ancestors started digging underground to find the stones they needed for their tools. He traces the links between mineral riches and empires, wars, and civilizations, and shows how mining in its various forms came to be one of the largest global industries. He also illustrates how the gigantic mining machine is now starting to show signs of difficulties. The easy mineral resources, the least expensive to extract and process, have been mostly exploited and depleted. There are plenty of minerals left to extract, but at higher costs and with increasing difficulties. The effects of depletion take different forms and one may be the economic crisis that is gripping the world system. And depletion is not the only problem. Mining has a dark side—pollution—that takes many forms and delivers many consequences, including climate change. The world we have been accustomed to, so far, was based on cheap mineral resources and on the ability of the ecosystem to absorb pollution without generating damage to human beings. Both conditions are rapidly disappearing. Having thoroughly plundered planet Earth, we are entering a new world. Bardi draws upon the world's leading minerals experts to offer a compelling glimpse into that new world ahead.

Bread Is Gold

Phaidon Press Massimo Bottura, the world's best chef, prepares extraordinary meals from ordinary and sometimes 'wasted' ingredients inspiring home chefs to eat well while living well. 'These dishes could change the way we feed the world, because they can be cooked by anyone, anywhere, on any budget. To feed the planet, first you have to fight the waste', Massimo Bottura Bread is Gold is the first book to take a holistic look at the subject of food waste, presenting recipes for three-course meals from 45 of the world's top chefs, including Daniel Humm, Mario Batali, René Redzepi, Alain Ducasse, Joan Roca, Enrique Olvera, Ferran & Albert Adrià and Virgilio Martínez. These recipes, which number more than 150, turn everyday ingredients into inspiring dishes that are delicious, economical, and easy to make.

Clean Disruption of Energy and Transportation

How Silicon Valley Will Make Oil, Nuclear, Natural Gas, Coal, Electric Utilities and Conventional Cars Obsolete by 2030

Tony Seba The industrial age of energy and transportation will be over by 2030. Maybe before. Exponentially improving technologies such as solar, electric vehicles, and autonomous (self-driving) cars will disrupt and sweep away the energy and transportation industries as we know it. The same Silicon Valley ecosystem that created bit-based technologies that have disrupted atom-based industries is now creating bit- and electron-based technologies that will disrupt atom-based energy industries. Clean Disruption projections (based on technology cost curves, business model innovation as well as product innovation) show that by 2030: - All new energy will be provided by solar or wind. - All new mass-market vehicles will be electric. - All of these vehicles will be autonomous

(self-driving) or semi-autonomous. - The new car market will shrink by 80%. - Even assuming that EVs don't kill the gasoline car by 2030, the self-driving car will shrink the new car market by 80%. - Gasoline will be obsolete. Nuclear is already obsolete. - Up to 80% of highways will be redundant. - Up to 80% of parking spaces will be redundant. - The concept of individual car ownership will be obsolete. - The Car Insurance industry will be disrupted. The Stone Age did not end because we ran out of rocks. It ended because a disruptive technology ushered in the Bronze Age. The era of centralized, command-and-control, extraction-resource-based energy sources (oil, gas, coal and nuclear) will not end because we run out of petroleum, natural gas, coal, or uranium. It will end because these energy sources, the business models they employ, and the products that sustain them will be disrupted by superior technologies, product architectures, and business models. This is a technology-based disruption reminiscent of how the cell phone, Internet, and personal computer swept away industries such as landline telephony, publishing, and mainframe computers. Just like those technology disruptions flipped the architecture of information and brought abundant, cheap and participatory information, the clean disruption will flip the architecture of energy and bring abundant, cheap and participatory energy. Just like those previous technology disruptions, the Clean Disruption is inevitable and it will be swift.

Supramolecular Photochemistry

Springer Science & Business Media The intellectual and utilitarian opportunities that lie at the frontiers of chemistry have been recently emphasized by the Pimentel Report. Such report recommends that in the field of chemical research priority should be given to "understanding chemical reactivity" and proposes initiatives aimed at the clarification of factors that control the rates of reaction and the development of new synthetic pathways for chemical change. In the broad field of chemical reactivity, a discipline that has grown with an extraordinary rate is photochemistry. Since the knowledge of the photochemical properties at the molecular level has made a substantial progress in the last few years, there is currently a trend to study more and more complex photochemical systems. In particular, an emerging and rapidly expanding branch of photochemistry is that concerning studies of assemblies of molecular components properly combined so as to obtain light-induced functions (supramolecular photochemistry). Although much of the current work in supramolecular photochemistry is fundamental in nature, it is clear that progress in this field will be most rewarding for several applications concerning the interaction of light with matter. In particular, it will allow us to pursue research aimed at the photochemical conversion of solar energy by means of artificial systems and to make progress towards futuristic branches of science called "photonics" (photo-generated electron migration processes on a molecular basis) and "chemionics" (design of components, circuitry, and information treatment at the molecular level).

Internal Combustion Engines

Società Editrice Esculapio This book presents an energetic approach to the performance analysis of internal combustion engines, seen as attractive applications of the principles of thermodynamics, fluid mechanics and energy transfer. Paying particular attention to the presentation of theory and practice in a balanced ratio, the book is an important aid both for students and for technicians, who want to widen their knowledge of basic principles required for design and development of internal combustion engines. New engine technologies are covered, together with recent developments in terms of: intake and exhaust flow optimization, design and development of supercharging systems, fuel metering and spray characteristic control, fluid turbulence motions, traditional and advanced combustion process analysis, formation and control of pollutant emissions and noise, heat transfer and cooling, fossil and renewable fuels, mono- and multi-dimensional models of termo-fluid-dynamic processes.

Photochemistry and Photophysics of Coordination Compounds II

Springer Photochemistry (a term that broadly speaking includes photophysics) is a branch of modern science that deals with the interaction of light with matter and lies at the crossroads of chemistry, physics, and biology. However, before being a branch of modern science, photochemistry was (and still is today), an extremely important natural phenomenon. When God said: "Let there be light", photochemistry began to operate, helping God to create the world as we now know it. It is likely that photochemistry was the spark for the origin of life on Earth and played a fundamental role in the evolution of life. Through the photosynthetic process that takes place in green plants, photochemistry is responsible for the maintenance of all living organisms. In the geological past photochemistry caused the accumulation of the deposits of coal, oil, and natural gas that we now use as fuels. Photochemistry is involved in the control of ozone in the stratosphere and in a great number of environmental processes that occur in the atmosphere, in the sea, and on the soil. Photochemistry is the essence of the process of vision and causes a variety of behavioral responses in living organisms. Photochemistry as a science is quite young; we only need to go back less than one century to find its early pioneer [1]. The concept of coordination compound is also relatively young; it was established in 1892, when Alfred Werner conceived his theory of metal complexes [2]. Since then, the terms coordination compound and metal complex have been used as synonyms, even if in the last 30 years, coordination chemistry has extended its scope to the binding of all kinds of substrates [3, 4].

Collins COBUILD Advanced Learner's Dictionary

The eighth edition of this dictionary offers up-to-date coverage of today's English in a clear, attractive format. The book is ideal for upper-intermediate and advanced learners of English. It covers all the words, phrases, and idioms that students need to master in order to speak and write effective English.

Photoinduced Electron Transfer II

Springer

Utopia

Marvel Enterprises Norman Osborn has created his own team of Dark Avengers and Dark X-Men, supposedly reformed villains who take on the roles of their superhero counterparts.

Challenges of a Changing Earth

Proceedings of the Global Change Open Science Conference, Amsterdam, The Netherlands, 10–13 July 2001

Springer Science & Business Media This volume is based on plenary presentations from Challenges of a Changing Earth, a Global Change Open Science Conference held in Amsterdam, The Netherlands, in July 2001. The meeting brought together about 1400 scientists from 105 countries around the world to describe, discuss and debate the latest scientific understanding of natural and human-driven changes to our planet. It examined the effects of these changes on our societies and our lives, and explored what the future might hold. The presentations drew upon global change science from an exceptionally wide range of disciplines and approaches. Issues of societal importance – the food system, air quality, the carbon cycle, and water resources – were highlighted from both policy and science perspectives. Many of the talks presented the exciting scientific advances of the past decade of international research on global change. Several challenged the scientific community in the future. What are the visionary and creative new approaches needed for studying a complex planetary system in which human activities are intimately interwoven with natural processes? This volume aims to capture the timeliness and excitement of the science presented in Amsterdam. The plenary speakers were given a daunting task: to reproduce their presentations in a way that delivers their scientific messages accurately and in sufficient detail but at the same time reaches a very broad audience well beyond their own disciplines. Furthermore, they were required to do this in just a few pages.

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Jonathan Cape Brieven uit het doorgangskamp Westerbork, daterend uit de periode november 1942 tot september 1943.