

A Crude Look At The Whole The Science Of Complex Systems In Business Life And Society

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[The Lexus and the Olive Tree](#) - Thomas L. Friedman 2012-08-21

Explains how globalization is shaping world affairs, how it replaced the Cold War system, how it is creating a single global market, how it is influencing domestic policies, and other related topics.

[Silent Partners](#) - Elizabeth Jeffett 2020-04-27
Alex Sheridan, a Maverick entrepreneur and her high-powered business partner, Christine Welbourne, are poised for epic success in the oil and gas business. Brilliant and beautiful, the women are recognized as hard-charging leaders in the business community, as well as the traditionally male dominated oil and gas industry. Business dreams and love relationships are shattered when Alex discovers Chris brutally murdered in their office. It looks like a professional hit. The case immediately becomes a high-profile media event. The murder investigation shuts down their business as it follows a maze of evidence that leads to dead ends and destruction. When Chris' secret affair with a powerful senator is discovered, events escalate. The unsolved murder of her dearest friend combined with the destruction of their

business emotionally hobbles Alex. Powerful politicians, cutthroat associates and business enemies are suspects and Alex is interrogated about her possible motive. Amidst the chaos, her burgeoning love interest with the rugged engineer, Colt Forrester is abandoned. As leads are exhausted, the murder case of prominent Denver businesswoman, Christine Welbourne goes cold. Sequel.....Crude Intent, Coming in 2020

[Complex Systems in Medicine](#) - David C. Aron 2019-08-30

This unique title explores complex systems in clinical medicine and the subsequent implementation of that knowledge into practice. Written conversationally and as a reflection on the journey of learning about complex systems, the book explores how knowledge of these systems can be applied to four key roles in academic medicine: clinical practice, education, research, and administration. Further, this title emphasizes how gaining an understanding of complex systems can greatly help a physician deal with the many challenges found in academic medicine. Unlike other books on complexity in medicine, which tend to focus on

only one aspect of the management of patients, *Complex Systems in Medicine* deals with the multifaceted roles of a physician. The approach in this book is uniquely qualitative rather than mathematical, and is written to make it not only of interest to physicians, trainees, and allied health providers, but also to make it more accessible to a non-medical audience. The inclusion of personal anecdotes by the author provides concrete examples of the application of knowledge of complex systems in academic medicine. A first-of-its-kind contribution to the literature, *Complex Systems in Medicine: A Hedgehog's Tale of Complexity in Clinical Practice, Research, Education, and Management* is not only a novel reference for medical professionals, it is an accessible tool for the non-medical audience hoping to learn more about complex systems and their direct relevance to medicine, a field that deals with the infinite variety of humans and their ills. It illustrates the consequences of the interactive elements of patient care that make medicine both a science and an art.

Fundamentals of Petroleum Refining -

Mohamed A. Fahim 2009-11-19

Fundamentals of Petroleum Refining presents the fundamentals of thermodynamics and kinetics, and it explains the scientific background essential for understanding refinery operations. The text also provides a detailed introduction to refinery engineering topics, ranging from the basic principles and unit operations to overall refinery economics. The book covers important topics, such as clean fuels, gasification, biofuels, and environmental impact of refining, which are not commonly discussed in most refinery textbooks. Throughout the source, problem sets and examples are given to help the reader practice and apply the fundamental principles of refining. Chapters 1-10 can be used as core materials for teaching undergraduate courses. The first two chapters present an introduction to the petroleum refining industry and then focus on feedstocks and products. Thermophysical properties of crude oils and petroleum fractions, including processes of atmospheric and vacuum distillations, are discussed in Chapters 3 and 4. Conversion processes, product blending, and alkylation are covered in chapters 5-10. The

remaining chapters discuss hydrogen production, clean fuel production, refining economics and safety, acid gas treatment and removal, and methods for environmental and effluent treatments. This source can serve both professionals and students (on undergraduate and graduate levels) of Chemical and Petroleum Engineering, Chemistry, and Chemical Technology. Beginners in the engineering field, specifically in the oil and gas industry, may also find this book invaluable. Provides balanced coverage of fundamental and operational topics Includes spreadsheets and process simulators for showing trends and simulation case studies Relates processing to planning and management to give an integrated picture of refining [A Crude Look at the Whole](#) - Miller H. John 2016-01-05

From economic meltdowns to how people cooperate, there is much about the human world that eludes our understanding. John Miller, a leading expert in the computational study of complex adaptive systems, shows in *A Crude Look at the Whole* how a range of studies in the natural and social sciences can help us better understand our most pressing problems. The key is to avoid reductionism--simplifying important systems down to a few apparently essential variables in hopes of finding the means for control. Instead, Miller would have us deal with rougher sketches of phenomena. Those pictures may be cruder, but they show us similarities between a mammal's heartbeat and the "heartbeat" of a city that add to our understanding of urban growth and planning, or help us see how throwing aside detail-obsessed methodologies like Six Sigma can speed the discovery of vital new goods and ideas. Ultimately, Miller argues, by understanding the complex systems underlying the major societal issues of our time, from enduring racial segregation to sudden stock-market disasters, we will be better equipped to confront and anticipate such challenges before they put an end to us. In *A Crude Look at the Whole*, Miller gives us a powerful exploration of these challenges and presents his field's most vital work to answer this compelling question: how can we learn enough to make the most of our economy, our world, and ourselves?

Memetics and Evolutionary Economics -

Michael P. Schlaile 2020-12-21

This book explores the question of whether and how meme theory or “memetics” can be fruitfully utilized in evolutionary economics and proposes an approach known as “economemetics” which is a combination of meme theory and complexity theory that has the potential to combat the fragmentation of evolutionary economics while re-connecting the field with cultural evolutionary theory. By studying the intersection of cultural and economic evolution, complexity economics, computational economics, and network science, the authors establish a connection between memetics and evolutionary economics at different levels of investigation. The book first demonstrates how a memetic approach to economic evolution can help to reveal links and build bridges between different but complementary concepts in evolutionary economics. Secondly, it shows how organizational memetics can help to capture the complexity of organizational culture using meme mapping. Thirdly, it presents an agent-based simulation model of knowledge diffusion and assimilation in innovation networks from a memetic perspective. The authors then use agent-based modeling and social network analysis to evaluate the diffusion pattern of the Ice Bucket Challenge as an example of a “viral meme.” Lastly, the book discusses the central issues of agency, creativity, and normativity in the context of economemetics and suggests promising avenues for further research.

Finding Monte Cristo - Eric Martone
2018-08-21

During his lifetime, Alexandre Dumas (1802-1870)--grandson of a Caribbean slave and author of *The Three Musketeers* and *The Count of Monte Cristo*--faced racial prejudice in his homeland of France and constantly strove to find a sense of belonging. For him, "Monte Cristo" was a symbol of this elusive quest. It proved equally elusive for those struggling to overcome slavery and its legacy in the former French colonies. Exiled to the margins of society, 19th and 20th century black intellectuals from the Caribbean and Africa drew on Dumas' work and celebrity to renegotiate their full acceptance as French citizens. Their efforts were influenced by earlier struggles of African Americans in the

decades after the Civil War, who celebrated Dumas as a black American hero.

Ecological Sustainability - Robert B. Northrop
2013-05-20

Complex systems is a new field of science studying how parts of a system give rise to the collective behaviors of the system, and how the system interacts with its environment. This book examines the complex systems involved in environmental sustainability, and examines the technologies involved to help mitigate human impacts, such as renewable energy, desalination, carbon capture, recycling, etc. It considers the relationships and balance between environmental engineering and science, economics, and human activity, with regard to sustainability.

Will - Will Smith 2021-11-09

The instant #1 New York Times bestseller! “It's the best memoir I've ever read.” —Oprah Winfrey “Will Smith isn't holding back in his bravely inspiring new memoir . . . An ultimately heartwarming read, Will provides a humane glimpse of the man behind the actor, producer and musician, as he bares all his insecurities and trauma.” —USA Today Winner of the NAACP Image Award for Outstanding Literary Achievement One of the most dynamic and globally recognized entertainment forces of our time opens up fully about his life, in a brave and inspiring book that traces his learning curve to a place where outer success, inner happiness, and human connection are aligned. Along the way, Will tells the story in full of one of the most amazing rides through the worlds of music and film that anyone has ever had. Will Smith's transformation from a West Philadelphia kid to one of the biggest rap stars of his era, and then one of the biggest movie stars in Hollywood history, is an epic tale—but it's only half the story. Will Smith thought, with good reason, that he had won at life: not only was his own success unparalleled, his whole family was at the pinnacle of the entertainment world. Only they didn't see it that way: they felt more like star performers in his circus, a seven-days-a-week job they hadn't signed up for. It turned out Will Smith's education wasn't nearly over. This memoir is the product of a profound journey of self-knowledge, a reckoning with all that your will can get you and all that it can leave behind.

Written with the help of Mark Manson, author of the multi-million-copy bestseller *The Subtle Art of Not Giving a F*ck*, Will is the story of how one person mastered his own emotions, written in a way that can help everyone else do the same. Few of us will know the pressure of performing on the world's biggest stages for the highest of stakes, but we can all understand that the fuel that works for one stage of our journey might have to be changed if we want to make it all the way home. The combination of genuine wisdom of universal value and a life story that is preposterously entertaining, even astonishing, puts Will the book, like its author, in a category by itself.

Serious Games - Ute Ritterfeld 2009-09-10

The central purpose of this book is to examine critically the claim that playing games can provide learning that is deep, sustained and transferable to the "real world."

Crude Politics - Paul Sabin 2005

Paul Sabin offers a study of the oil market in California before World War II, showing how the development of an economy & society very heavily dependent upon oil production & consumption was largely directed by policy decisions regarding property rights, regulatory law & public investment.

A Crude Look at the Whole - John H. Miller 2016-01-05

A top expert explains why a social and economic understanding of complex systems will help society to anticipate and confront our biggest challenges. Imagine trying to understand a stained glass window by breaking it into pieces and examining it one shard at a time. While you could probably learn a lot about each piece, you would have no idea about what the entire picture looks like. This is reductionism -- the idea that to understand the world we only need to study its pieces -- and it is how most social scientists approach their work. In *A Crude Look at the Whole*, social scientist and economist John H. Miller shows why we need to start looking at whole pictures. For one thing, whether we are talking about stock markets, computer networks, or biological organisms, individual parts only make sense when we remember that they are part of larger wholes. And perhaps more importantly, those wholes can take on behaviors that are strikingly different from that of their

pieces. Miller, a leading expert in the computational study of complex adaptive systems, reveals astounding global patterns linking the organization of otherwise radically different structures: It might seem crude, but a beehive's temperature control system can help predict market fluctuations and a mammal's heartbeat can help us understand the "heartbeat" of a city and adapt urban planning accordingly. From enduring racial segregation to sudden stock market disasters, once we start drawing links between complex systems, we can start solving what otherwise might be totally intractable problems. Thanks to this revolutionary perspective, we can finally transcend the limits of reductionism and discover crucial new ideas. Scientifically founded and beautifully written, *A Crude Look at the Whole* is a powerful exploration of the challenges that we face as a society. As it reveals, taking the crude look might be the only way to truly see.

Crude Chronicles - Suzana Sawyer 2004-05-17
Ecuador is the third-largest foreign supplier of crude oil to the western United States. As the source of this oil, the Ecuadorian Amazon has borne the far-reaching social and environmental consequences of a growing U.S. demand for petroleum and the dynamics of economic globalization it necessitates. *Crude Chronicles* traces the emergence during the 1990s of a highly organized indigenous movement and its struggles against a U.S. oil company and Ecuadorian neoliberal policies. Against the backdrop of mounting government attempts to privatize and liberalize the national economy, Suzana Sawyer shows how neoliberal reforms in Ecuador led to a crisis of governance, accountability, and representation that spurred one of twentieth-century Latin America's strongest indigenous movements. Through her rich ethnography of indigenous marches, demonstrations, occupations, and negotiations, Sawyer tracks the growing sophistication of indigenous politics as Indians subverted, re-deployed, and, at times, capitulated to the dictates and desires of a transnational neoliberal logic. At the same time, she follows the multiple maneuvers and discourses that the multinational corporation and the Ecuadorian state used to circumscribe and contain indigenous opposition.

Ultimately, Sawyer reveals that indigenous struggles over land and oil operations in Ecuador were as much about reconfiguring national and transnational inequality—that is, rupturing the silence around racial injustice, exacting spaces of accountability, and rewriting narratives of national belonging—as they were about the material use and extraction of rain-forest resources.

Agriculture's Ethical Horizon - Robert L. Zimdahl 2012-01-30

What are the goals of agricultural science? What should the goals of agricultural science be? How do and how should the practitioners of agriculture address complex ethical questions? These questions are explored in this monumental book so that those in agriculture will begin an open dialogue on the ethics of agriculture.

Discussion of foundational values, of why we practice agriculture as we do, should become a central, rather than peripheral, part of agricultural practice and education. If agricultural scientists do not venture forth to understand and shape the ethical base of the future, it will be imposed by others. Largely autobiographical, this book covers topics such as scientific truth and myth, what agricultural research should be done, an introduction to ethics, moral confidence in agriculture, the relevance of ethics to agriculture, sustainability, and biotechnology. * Written by an expert who has been engaged in agricultural education and research for over 35 years * Content is easily understandable by non-philosophers * The concepts of scientific truth and myth are contrasted and compared * Chapter sidebars highlight important concepts and can be used to engage students in further discussion * Companion website will accompany the book with further teaching aids and a discussion board

The End of Oil - Paul Roberts 2005-04-05

Petroleum is now so deeply entrenched in our economy, our politics, and our personal expectations that even modest efforts to phase it out are fought tooth and nail by the most powerful forces in the world: companies and governments that depend on oil revenues; the developing nations that see oil as the only means to industrial success; and a Western middle class that refuses to modify its energy-dependent

lifestyle. But within thirty years, by even conservative estimates, we will have burned our way through most of the oil that is easily accessible. And well before then, the side effects of an oil-based society—economic volatility, geopolitical conflict, and the climate-changing impact of hydrocarbon pollution—will render fossil fuels an all but unacceptable solution. How will we break our addiction to oil? And what will we use in its place to maintain a global economy and political system that are entirely reliant on cheap, readily available energy? Brilliantly reported from around the globe, *The End of Oil* brings the world situation into fresh and dramatic focus for business and general readers alike. Roberts talks to both oil optimists and oil pessimists, delves deep into the economics and politics of oil, considers the promises and pitfalls of alternatives, and shows that, although the world energy system has begun its epoch-defining transition, disruption and violent dislocation are almost assured if we do not take a more proactive stance. With the topicality and readability of *Fast Food Nation* and the scope and trenchant analysis of *Guns, Germs, and Steel*, this is a vitally important book for the new century.

Handbook on Decision Support Systems 1 - Frada Burstein 2008-01-22

Decision support systems have experienced a marked increase in attention and importance over the past 25 years. The aim of this book is to survey the decision support system (DSS) field - covering both developed territory and emergent frontiers. It will give the reader a clear understanding of fundamental DSS concepts, methods, technologies, trends, and issues. It will serve as a basic reference work for DSS research, practice, and instruction. To achieve these goals, the book has been designed according to a ten-part structure, divided in two volumes with chapters authored by well-known, well-versed scholars and practitioners from the DSS community.

Global Standards of Market Civilization - Brett Bowden 2006-10-03

Global Standards of Market Civilization brings together leading scholars, representing a range of political views, to investigate how global 'standards of market civilization' have emerged, their justification, and their political, economic

and social impact. Key chapters show how as the modern state system has evolved such standards have also developed, incorporating the capacity for social cooperation and self-government to which states must conform in order to fully participate as legitimate members in international society. This study analyzes their justification, and their political, economic and social impact. Civilization is a term widely used within modern political discourse its meaning, yet it is poorly understood and misused. part I explores the idea of a 'standard of civilization', its implications for governance, and the use of such standards in political theory and economic thought, as well as its historical application part II presents original case studies that demonstrate the emergence of such standards and explore the diffusion of liberal capitalist ideas through the global political economy and the consequences for development and governance; the International Monetary Fund's capacity to formulate a global standard of civilization in its reform programs; and problems in the development of the global trade, including the issue of intellectual property rights. This book will be of strong interest to students and scholars in wide range of fields relating to the study of globalization including: international political economy; international political theory; international relations theory; comparative political economy; international law; historical sociology; and economic history.

The Cunning of Uncertainty - Helga Nowotny
2015-11-19

Uncertainty is interwoven into human existence. It is a powerful incentive in the search for knowledge and an inherent component of scientific research. We have developed many ways of coping with uncertainty. We make promises, manage risks and make predictions to try to clear the mists and predict ahead. But the future is inherently uncertain - and the mist that shrouds our path an inherent part of our journey. The burning question is whether our societies can face up to uncertainty, learn to embrace it and whether we can open up to a constantly evolving future. In this new book, Helga Nowotny shows how research can thrive at the cusp of uncertainty. Science, she argues, can eventually transform uncertainty into certainty, but into certainty which remains

always provisional. Uncertainty is never completely static. It is constantly evolving. It encompasses geological time scales and, at the level of human experience, split-second changes as cells divide. Life and death decisions are taken in the blink of the eye, while human interactions with the natural environment may reveal their impact over millennia. Uncertainty is cunning. It appears at unexpected moments, it shuns the straight line, takes the oblique route and sometimes the unexpected short-cut. As we acknowledge the cunning of uncertainty, its threats retreat. We accept that any scientific inquiry must produce results that are provisional and uncertain. This message is vital for politicians and policy-makers: do not be tempted by small, short-term, controllable gains to the exclusion of uncertain, high-gain opportunities. Wide-ranging in its use of examples and enriched by the author's experience as President of the European Research Council, one of the world's leading funding organisations for fundamental research. *The Cunning of Uncertainty* is a must-read for students and scholars of all disciplines, politicians, policy-makers and anyone concerned with the fundamental role of knowledge and science in our societies today.

The Evolution Of Human Languages - John A. Hawkins
1992-10-20

This proceedings volume from a workshop by the same name sponsored by the Santa Fe Institute in August, 1989, covers a range of disciplines and subdisciplines of relevance to linguistics, phonetics, psycholinguistics, cognitive science, sociolinguistics, archaeological and anthropological linguistics, neuroanatomy, biology, and physics.

The New Kings of Crude - Luke Patey
2014-10-15

In the past decade, the need for oil in Asia's new industrial powers, China and India, has grown dramatically. *The New Kings of Crude* takes the reader from the dusty streets of an African capital to Asia's glistening corporate towers to provide a first look at how the world's rising economies established new international oil empires in Sudan, amid one of Africa's longest-running and deadliest civil wars. For over a decade, Sudan fuelled the international rise of Chinese and Indian national oil companies. But

the political turmoil surrounding the historic division of Africa's largest country, with the birth of South Sudan, challenged Asia's oil giants to chart a new course. Luke Patey weaves together the stories of hardened oilmen, powerful politicians, rebel fighters, and human rights activists to show how the lure of oil brought China and India into Sudan--only later to ensnare both in the messy politics of a divided country. His book also introduces the reader to the Chinese and Indian oilmen and politicians who were willing to become entangled in an African civil war in the pursuit of the world's most coveted resource. It offers a portrait of the challenges China and India are increasingly facing as emerging powers in the world.

Information and Meaning - Jennifer M. Ivers
2003-12

Based on the premise that difficult material, with adequate support, provides the most enriching experience in the composition classroom, this book offers its readers a challenge and encourages them to think and write critically. KEY TOPICS Unique content features fresh material that is mostly new and has not been anthologized before. For writing inspiration, and anyone who wants to participate in broader cultural conversations about the selections presented here.

Monsters' Crew - Sam Crescent 2021-02-08

Crude Hill High is unlike any other school. We learn to fight because we're the kids who come from monsters. Caleb, River, Gael, and Vadik are the kings who rule. They may only be eighteen, but they're dangerous, and I saved one of them. Rather than let it go, they want to know me. To save one is to protect all. I'm used to being invisible, yet, to the Monsters' Crew, I'm anything but. They won't let me hide, determined to break down my walls that keep me—the daughter of a minion—safe. My father has very little power, and the only thing he values is my virginity, which I'm sure he's more than willing to sell. What's more, I want to be with them every step of the way. I don't know how I can make it work with four guys, but every single day, they convince me I can. In our world, there is no such thing as a happily-ever-after. Our lives are always on the edge of pain and death, and I should have known nothing good would last. This is part one of a duet. Emily and

her Monsters will conclude in part two.

Crude Awakening - Michael D. Goldhaber
2014-08-20

"A rip-roaring new ebook that chronicles the saga of the two [Chevron] trials . . . Shocking, appalling and hugely entertaining."—Financial Times A behind-the-scenes look at the world's biggest and most tangled legal case. On their way to winning a \$19 billion verdict against Chevron in Ecuador, lawyers for the Amazonian plaintiffs invited a documentary film crew to record their every move. Unfortunately, their every move included fraud. Chevron subpoenas the outtakes and follows the clues from one improbable fraud to another. The drama culminates in a racketeering counter-trial, where it's the testimony of one corrupt ex-judge against another. A detective story and courtroom drama, with an epilogue of keen commentary, *Crude Awakening* is the definitive account of Chevron's struggle to prove that the truth is the truth—even when the truth is on the side of the big bad oil company, and not on the side of the charismatic little guy fighting for the indigenous people of the Amazon rain forest. *Crude Awakening* will captivate both students of law and students of human nature. "A superb feat of legal journalism."—Forbes

From Crude Oil to Fast Food - Ian Graham
2015

Explains how crude oil is formed, how it is obtained and how it is used in the food industry.

Crude World - Peter Maass 2010-08-10

The catastrophic oil spill in the Gulf of Mexico has brought new attention to the huge costs of our oil dependence. In this stunning and revealing book, Peter Maass examines the social, political, and environmental impact of petroleum on the countries that produce it. Every unhappy oil-producing nation is unhappy in its own way, but all are touched by the "resource curse"—the power of oil to exacerbate existing problems and create new ones. Peter Maass presents a vivid portrait of the troubled world oil has created. From Saudi Arabia to Equatorial Guinea, from Venezuela to Iraq, the stories of rebels, royalty, middlemen, environmentalists, indigenous activists, and CEOs—all deftly and sensitively presented—come together in this startling and essential account of the consequences of our addiction to oil.

North by 2020 - Amy Lauren Lovcraft
2011-11-15

Originating from a series of workshops held at the Alaska Forum of the Fourth International Polar Year, this interdisciplinary volume addresses a host of current concerns regarding the ecology and rapid transformation of the arctic. Concentrating on the most important linked social-ecological systems, including fresh water, marine resources, and oil and gas development, this volume explores opportunities for sustainable development from a variety of perspectives, among them social sciences, natural and applied sciences, and the arts. Individual chapters highlight expressions of climate change in dance, music, and film, as well as from an indigenous knowledge-based perspective.

Appreciative Leadership: Building Sustainable Partnerships for Health - Kathy Malloch 2020-12-21

Appreciative Leadership: Building Sustainable Partnerships for Health explores how newly trained graduates and experienced leaders can leverage an interdisciplinary approach focused on the strength of their teams to transform healthcare in today's complex environment. **T Reframing the Leadership Landscape** - Dr Reginald Watts 2015-05-28

In an uncertain and complex world leaders should not merely respond to the speed of change but attempt to anticipate it. Sometimes it is unexpected, sometimes the signs are there but the dots are not joined together. The NEW normal must be navigated, negotiated, networked and a narrative built around it. Leaders need to adapt to a changing ecosystem in which the biggest challenges cross the boundaries of the public, private and non-profit sectors, requiring much closer collaboration. Aggressive individualism is no longer a sustainable basis for companies needing to deliver social and economic value, now, enterprises must move beyond narrow self-interest and short-termism to balance stakeholder expectations. In Reframing the Leadership Landscape, Dr Roger Hayes and Dr Reginald Watts argue that the interconnected and interdependent world requires leaders to adopt a more holistic and inclusive approach. Despite global business education advances,

business mostly fails to make cross-disciplinary connections or interpret weak signals and is ill-prepared for changes in cultural and technical demands. The tool kit is here, ready to be unpacked. The only question is whether aspirant leaders are sensitive enough to read the signals and develop the skills needed to create an essential collaborative paradigm, which they must do if they wish to regain trust, fill the leadership void and help reshape a sustainable future.

A Crude Look at the Whole - John H. Miller
2016-01-05

A top expert explains why a social and economic understanding of complex systems will help society to anticipate and confront our biggest challenges. Imagine trying to understand a stained glass window by breaking it into pieces and examining it one shard at a time. While you could probably learn a lot about each piece, you would have no idea about what the entire picture looks like. This is reductionism -- the idea that to understand the world we only need to study its pieces -- and it is how most social scientists approach their work. In A Crude Look at the Whole, social scientist and economist John H. Miller shows why we need to start looking at whole pictures. For one thing, whether we are talking about stock markets, computer networks, or biological organisms, individual parts only make sense when we remember that they are part of larger wholes. And perhaps more importantly, those wholes can take on behaviors that are strikingly different from that of their pieces. Miller, a leading expert in the computational study of complex adaptive systems, reveals astounding global patterns linking the organization of otherwise radically different structures: It might seem crude, but a beehive's temperature control system can help predict market fluctuations and a mammal's heartbeat can help us understand the "heartbeat" of a city and adapt urban planning accordingly. From enduring racial segregation to sudden stock market disasters, once we start drawing links between complex systems, we can start solving what otherwise might be totally intractable problems. Thanks to this revolutionary perspective, we can finally transcend the limits of reductionism and discover crucial new ideas. Scientifically

founded and beautifully written, *A Crude Look at the Whole* is a powerful exploration of the challenges that we face as a society. As it reveals, taking the crude look might be the only way to truly see.

The Ecology of Place - Ian Billick 2012-08-01

Ecologists can spend a lifetime researching a small patch of the earth, studying the interactions between organisms and the environment, and exploring the roles those interactions play in determining distribution, abundance, and evolutionary change. With so few ecologists and so many systems to study, generalizations are essential. But how do you extrapolate knowledge about a well-studied area and apply it elsewhere? Through a range of original essays written by eminent ecologists and naturalists, *The Ecology of Place* explores how place-focused research yields exportable general knowledge as well as practical local knowledge, and how society can facilitate ecological understanding by investing in field sites, place-centered databases, interdisciplinary collaborations, and field-oriented education programs that emphasize natural history. This unique patchwork of case-study narratives, philosophical musings, and historical analyses is tied together with commentaries from editors Ian Billick and Mary Price that develop and synthesize common threads. The result is a unique volume rich with all-too-rare insights into how science is actually done, as told by scientists themselves.

Ecodynamics - C. A. Brebbia 2011

This book contains a series of outstanding contributions on ecodynamics that appeared in limited editions before the emergence of the *International Journal of Design & Nature and Ecodynamics*, which has now become the primary focus for this area of research. The aim of ecodynamics is to relate ecosystems to evolutionary thermodynamics, which can lead to appropriate solutions for sustainable development. The contributions published in this volume relate to all aspects of ecosystems and sustainable development, ranging from physical sciences to economics and epistemology. The world of ecosystems has been dominated by the towering personality of Ilya Prigogine to whom this volume is dedicated. The first article is an extract from his autobiography written shortly

before he died. Prigogine's ideas are directly reflected in many of the contributions in this volume. He helped set up numerous research groups all around the world, including that at Siena University headed by the late Enzo Tiezzi. He also influenced the work of Sven Jorgensen, Bernard Patten, Robert Ulanowicz, Simone Bastianoni, Nadia Marchettini, Ricardo Pulselli, T-S Chon, to name just a few amongst the many authors contributing to this volume. This compilation of influential papers currently unavailable in the open literature will make an important contribution to the field of ecodynamics.

The Empire of Civilization - Brett Bowden 2009-08-01

The term "civilization" comes with considerable baggage, dichotomizing people, cultures, and histories as "civilized"—or not. While the idea of civilization has been deployed throughout history to justify all manner of interventions and sociopolitical engineering, few scholars have stopped to consider what the concept actually means. Here, Brett Bowden examines how the idea of civilization has informed our thinking about international relations over the course of ten centuries. From the Crusades to the colonial era to the global war on terror, this sweeping volume exposes "civilization" as a stage-managed account of history that legitimizes imperialism, uniformity, and conformity to Western standards, culminating in a liberal-democratic global order. Along the way, Bowden explores the variety of confrontations and conquests—as well as those peoples and places excluded or swept aside—undertaken in the name of civilization. Concluding that the "West and the rest" have more commonalities than differences, this provocative and engaging book ultimately points the way toward an authentic intercivilizational dialogue that emphasizes cooperation over clashes.

The Bottom-up Revolution - Rob Kall 2019-05-09
Barack Obama, Bernie Sanders, Hillary Clinton, George W. Bush, Sir Richard Branson, Steve Jobs, and Mark Zuckerberg have all said that that change or growth happen from the bottom up. But what does it mean and how do you do "bottom up" better and smarter? Bottom up is a way of life and a way of doing business. *The Bottom-Up Revolution: Mastering the Emerging*

World of Connectivity, picks up where Malcolm Gladwell's Tipping Point left off. It is a how-to book for businesses, leaders, organizations, activists, and individuals, cracking wide-open humankind's biggest trend in seven million years. By understanding the roots and implications of "bottom up" and "top down" you'll be better able to tap the incredible power of this trend, as the billionaire founders of Google, Facebook, Craigslist and Twitter have done.

Heaven's Fractal Net - William Joseph Jackson 2004

"Fractal" is a term coined by mathematician Benoit Mandelbrot to denote the geometry of nature, which traces inherent order in chaotic shapes and processes. Fractal concepts are part of our emerging vocabulary and can be useful in identifying patterns of human behavior, culture, and history, while enhancing our understanding of the nature of consciousness. According to William J. Jackson, the more one studies fractals, the more apparent their connections to the humanities become. In the recursive patterns of religious music, in temple architecture in India, in cathedral structures in Europe and America, in the imagery of religious literature depicting infinity and abundance, and in poetic descriptions of the nature of consciousness, fractal-like configurations are pervasive. Recognition of this structure, which is also found in social organizations and ritual symbolism, requires only that one develop "an eye for fractals" by studying the work of researchers and observing nature. One then begins to see that the separation of humanities and science is convenient oversimplification, not an ultimate fact. Includes a DVD of animated fractals.

The Quark and the Jaguar - Murray Gell-Mann 1995-09-15

This book provides an explanation of the connections between nature at its most basic level and natural selection, archaeology, linguistics, child development, computers and other complex adaptive systems.

New Scientist - 1993

Mapping the Global Architect of Alterity - Michael Jenson 2014-03-21

Due to globalization, cultural spaces are now developing with no tangible connection to

geographical place. The territorial logic traditionally used to underpin architecture and envision our built environment is being radically altered, forcing the adoption of a new method of conceptualizing space/geography and what constitutes architectural practice. Construction techniques, design sensibilities, and cultural identities are being transformed as technology transports us to places that were previously unreachable. The resultant "globalized" architect must become more than just an artful visionary, but also a master of the art of the political nudge willing to act within multiple mediums and at the simultaneous scales of a chaotic new world disorder. Though fearless they must also be responsible, inherently understanding the necessity to align bold visions with the mundane details of the everyday in ways that are culturally flexible and accepting of change. The potential for what must be considered the legitimate practice of the architect must move from a purely material venue to one more directly engaged in the chaos of the larger economic, political, and social spheres of a globalizing world. The issues and possible interactions with globalization contained in this text exemplify ways that architecture is transforming into a more flexible and fluid interdisciplinary version of its traditional self in order to rise to challenges of this new international terrain. A theme runs throughout in the form of a call: that architects must conceptually re-construct their frames of reference to better align with the demands of a rapidly globalizing world.

Crude Intentions - Alexandra Gillies 2019-12-20
Billions of dollars stolen from citizens are circling the globe, enriching powerful individuals, altering political outcomes, and disadvantaging everyday people. News headlines provide glimpses of how this corruption works and why it matters: President Trump's businesses struck deals with oligarchs and sold property to secretive shell companies; the Panama Papers leak triggered investigations in 79 countries; and, corruption scandals toppled heads of state in Brazil, South Africa, and South Korea. But how do these pieces fit together? And if the corruption is so vast and so tied up with powerful interests, how do we begin to fight back? To find answers, *Crude Intentions*

examines the corruption crisis that erupted during the recent oil boom. From 2008 to 2014, oil prices shot through the roof. Motivated by more than nine trillion dollars in new oil money, corruption followed apace. Examining the oil boom is like placing a drop of dye in the circulatory system of global corruption, and watching as it reveals the system's channels and pathways. Company bosses signed off on risky schemes to snap up choice oil blocks. Politicians in Brazil and Nigeria stole billions to build up their election war chests. Kleptocrats in Angola, Azerbaijan, and Russia seized upon the oil wealth to cement their hold on power. And an army of bankers, accountants, and lawyers lined up to help these corrupt actors stash their loot in the global system of shell companies and tax havens that serves today's super-rich. The money then bought yachts, mansions, and even a few foreign politicians. Drawing on information exposed by intrepid journalists, prosecutors, and whistle blowers, *Crude Intentions* tells jaw-dropping stories of corruption and asks what we

can learn from them. The cases reveal common tactics, but also vulnerabilities in this web of fraud. These are the starting points for building a smarter fight against corruption, in the oil sector and well beyond.

No, David! - David Shannon 2016-08-30

The Caldecott Honor-winning classic by bestselling picture-book creator David Shannon! When David Shannon was five years old, he wrote and illustrated his first book. On every page were these words: NO, DAVID! . . . and a picture of David doing things he was not supposed to do. Now David is all grown up. But some things never change. . . . Over fifteen years after its initial publication, NO, DAVID! remains a perennial household favorite, delighting children, parents, and teachers alike. David is a beloved character, whose unabashed good humor, mischievous smile, and laughter-inducing antics underline the love parents have for their children--even when they misbehave.

The Manual of Floral Designing - William Cleaver Harry 1919