

Chapter 1 Worlds In Motion 1450 1550

How does the need to obtain and deliver health services engender particular (im)mobility forms? And how is mobility experienced and imagined when it is required for healthcare access or delivery? Guided by these questions, *Healthcare in Motion* explores the dynamic interrelationship between mobility and healthcare, drawing on case studies from across the world and shedding light on the day-to-day practices of patients and professionals.

As globalization and transnational encounters intensify, people's mobility is increasingly conditioned by intimacy, ranging from love, desire, and sexual liaisons to broader family, kinship, and conjugal matters. This book explores the entanglement of mobility and intimacy in various configurations throughout the world. It argues that rather than being distinct and unrelated phenomena, intimacy-related mobilities constitute variations of cross-border movements shaped by and deeply entwined with issues of gender, kinship, race, and sexuality, as well as local and global powers and border restrictions in a disparate world.

Practical Art of Motion Picture Sound embraces the subject of sound for films. Based on the experience of the author and other top sound craftspeople, this book provides numerous real-life examples and relevant technical data. It also is firmly grounded in practical techniques and it will show you an appreciation of all the processes involved in creating motion picture sound, from how to achieve great sound despite a small budget and less-than-perfect recording conditions to steps you will need to take to create an artful audio experience. This edition is completely revised and expanded, and the most popular sound editing systems, Pro Tools and Final Cut Pro, are covered in-depth. The accompanying NEW DVD presents demonstration material as well as a large library of sound effects, while numerous charts, illustrations, and photographs help to demonstrate techniques and common industry practices. Among other topics, *Practical Art of Motion Picture Sound, Third Edition* includes: . Preproduction planning . Production tips . Sound design . Sound editing . ADR and looping . Using Pro Tools . Using Nagra's analog and digital systems . Custom recording sound effects

This volume comprises studies of the early modern drama of motion and transformation of knowledge. It is unique in taking its global nature as fundamental and contains studies of the theme of motion and knowledge in China, Europe and the Pacific from the 16th to the 18th century. People living around the turn of the 17th century were experiencing motion in ways beyond the grasp of anyone less than a century earlier. Goods and people were crossing lands and oceans to distances never envisioned and in scales hardly imaginable by their recent predecessors. The earth itself has been set in motion and the heavens were populated by a whole new array of moving objects: comets, moons, sun spots. Even the motion of terrestrial objects—so close at hand and seemingly obvious—was being thoroughly reshaped. In the two centuries to follow, this incessant, world-changing motion would transform the creation, interpretation and dissemination of knowledge and the life and experiences of the people producing it: savants, artisans, pilots, collectors.

This volume is the first book-length presentation of the grammatical category of Associated Motion. It provides a framework for understanding a grammatical phenomenon which, though present in many languages, has gone unrecognized until recently. Previously known primarily from languages of Australia and South America, grammatical AM marking has now been identified in languages from most parts of the world (except Europe) and is becoming an important topic in linguistic typology. The chapters provide a thorough introduction to the subject, discussion of the relation between AM and related grammatical concepts, detailed descriptions of AM in a wide range of the world's languages, and surveys of AM in particular language families and areas.

This state-of-the-art report describes various facets of the human response to wind-induced motion in tall buildings and identifies design strategies to mitigate the effects of such motion on building occupants.

Focusing on the intersection between globalization and migration, this powerful text traces a dynamic, contradictory process that has set the world in motion and incorporated millions of migrants into an economic market whose dimensions are unprecedented in human history. Eliot Dickinson emphasizes recent developments in global politics, such as the massive number of refugees from wars in the Middle East who are now seeking asylum in Europe; the "Fortress Europe" mentality illustrated on the Italian island of Lampedusa; the heart-wrenching humanitarian challenge of Mexican and Central American children arriving alone in the United States; and the effects of climate change and environmental destruction on international migration. Today, with the collaboration of compliant governments and elites in the peripheral countries of the Global South, multinational corporations continue to flout regulations, destroy the environment, and take advantage of the large number of displaced, unemployed workers. While globalization is eliminating barriers between countries and making it easier for goods and capital to move around the world, the industrialized countries of the Global North are simultaneously putting up barriers to people and making it harder for them to migrate. This timely and provocative book explains how we have arrived at this paradoxical point in history and critically examines why governments are enacting policies that protect borders instead of people.

In the wide-ranging and innovative essays of *Cultures in Motion*, a dozen distinguished historians offer new conceptual vocabularies for understanding how cultures have trespassed across geography and social space. From the transformations of the meanings and practices of charity during late antiquity and the transit of medical knowledge between early modern China and Europe, to the fusion of Irish and African dance forms in early nineteenth-century New York, these essays follow a wide array of cultural practices through the lens of motion, translation, itinerancy, and exchange, extending the insights of transnational and translocal history. *Cultures in Motion* challenges the premise of fixed, stable cultural systems by showing that cultural practices have always been moving, crossing borders and locations with often surprising effect. The essays offer striking examples from early to modern times of intrusion, translation, resistance, and adaptation. These are histories where nothing--dance rhythms, alchemical formulas, musical practices, feminist aspirations, sewing machines, streamlined metals, or labor networks--remains stationary. In addition to the editors, the contributors are Celia Applegate, Peter Brown, Harold Cook, April Masten, Mae Ngai, Jocelyn Olcott, Mimi Sheller, Pamela Smith, and Nira Wickramasinghe. Some images inside the book are unavailable due to digital copyright restrictions.

In *Aztec Philosophy*, James Maffie shows the Aztecs advanced a highly sophisticated and internally coherent systematic philosophy worthy of consideration alongside other philosophies from around the world. Bringing together the fields of comparative world philosophy and Mesoamerican studies, Maffie excavates the distinctly philosophical aspects of Aztec thought. *Aztec Philosophy* focuses on the ways Aztec metaphysics—the Aztecs' understanding of the nature, structure and constitution of reality—underpinned Aztec thinking about wisdom, ethics, politics, and aesthetics, and served as a backdrop for Aztec religious practices as well as everyday activities such as weaving, farming, and warfare. Aztec metaphysicians conceived reality and

cosmos as a grand, ongoing process of weaving—theirs was a world in motion. Drawing upon linguistic, ethnohistorical, archaeological, historical, and contemporary ethnographic evidence, Maffie argues that Aztec metaphysics maintained a processive, transformational, and non-hierarchical view of reality, time, and existence along with a pantheistic theology. Aztec Philosophy will be of great interest to Mesoamericanists, philosophers, religionists, folklorists, and Latin Americanists as well as students of indigenous philosophy, religion, and art of the Americas.

This book assesses how theorists explained processes of change set in motion by the rise of capitalism. It situates them in the milieu in which they wrote. They were never neutral observers standing outside the conditions they were trying to explain. Their arguments were responses to those circumstances and to the views of others commentators, living and dead. Some repeated earlier views; others built on those perspectives; a few changed the way we think. While surveying earlier writers, the author's primary concerns are theorists who sought to explain industrialization, imperialism, and the consolidation of nation-states after 1840. Marx, Durkheim, and Weber still shape our understandings of the past, present, and future. Patterson focuses on explanations of the unsettled conditions that crystallized in the 1910s and still persist: the rise of socialist states, anti-colonial movements, prolonged economic crises, and almost continuous war. After 1945, theorists in capitalist countries, influenced by Cold War politics, saw social change in terms of economic growth, progress, and modernization; their contemporaries elsewhere wrote about underdevelopment, dependency, or uneven development. In the 1980s, theorists of postmodernity, neoliberalism, globalization, innovations in communications technologies, and post-socialism argued that they rendered earlier accounts insufficient. Others saw them as manifestations of a new imperialism, capitalist accumulation on a global scale, environmental crises, and nationalist populism.

Dynamics of the family can be seen as a complex set of interrelated cogs, like the dials and wheels within a sophisticated timepiece. *Families in Motion: Dynamics in Diverse Contexts* is a clear, comprehensive, and contextual view of how the dials and wheels of that complex set work together. With a focus on multicultural competence through diverse contexts and examples, this new text explores the complexities of the family regarding roles, functions, and development in a way that is approachable for students. Grounded in theory and using 40 years of academic experience, author Clara Gerhardt guides readers through concepts of family theories and examines the ever-changing movement, communication, and conditions of both the family as a system and each member within the system. Covering approaches from the theoretical to the therapeutic, *Families in Motion* will support students in extending their cultural competence while understanding families and their members with greater confidence.

In a period characterized by expanding markets, national consolidation, and social upheaval, print culture picked up momentum as the nineteenth century turned into the twentieth. Books, magazines, and newspapers were produced more quickly and more cheaply, reaching ever-increasing numbers of readers. Volume 4 of *A History of the Book in America* traces the complex, even contradictory consequences of these changes in the production, circulation, and use of print. Contributors to this volume explain that although mass production encouraged consolidation and standardization, readers increasingly adapted print to serve their own purposes, allowing for increased diversity in the midst of concentration and integration. Considering the book in larger social and cultural networks, essays address the rise of consumer culture, the extension of literacy and reading through schooling, the expansion of secondary and postsecondary education and the growth of the textbook industry, the growing influence of the professions and their dependence on print culture, and the history of relevant technology. As the essays here attest, the expansion of print culture between 1880 and 1940 enabled it to become part of Americans' everyday business, social, political, and religious lives. Contributors: Megan Benton, Pacific Lutheran University Paul S. Boyer, University of Wisconsin-Madison Una M. Cadegan, University of Dayton Phyllis Dain, Columbia University James P. Danky, University of Wisconsin-Madison Ellen Gruber Garvey, New Jersey City University Peter Jaszi, American University Carl F. Kaestle, Brown University Nicolas Kanellos, University of Houston Richard L. Kaplan, ABC-CLIO Publishing Marcel Chotkowski LaFollette, Washington, D.C. Elizabeth Long, Rice University Elizabeth McHenry, New York University Sally M. Miller, University of the Pacific Richard Ohmann, Wesleyan University Janice A. Radway, Duke University Joan Shelley Rubin, University of Rochester Jonathan D. Sarna, Brandeis University Charles A. Seavey, University of Missouri, Columbia Michael Schudson, University of California, San Diego William Vance Trollinger Jr., University of Dayton Richard L. Venezky (1938-2004) James L. W. West III, Pennsylvania State University Wayne A. Wiegand, Florida State University Michael Winship, University of Texas at Austin Martha Woodmansee, Case Western Reserve University

Interwar Portugal was in many ways a microcosm of Europe's encounter with modernity: reshaped by industrialization, urban growth, and the antagonism between liberalism and authoritarianism, it also witnessed new forms of media and mass culture that transformed daily life. This fascinating study of newspapers in 1920s Portugal explores how the new "modernist reportage" embodied the spirit of the era while mediating some of its most spectacular episodes, from political upheavals to lurid crimes of passion. In the process, Luís Trindade illuminates the twofold nature of that journalism—both historical account and material object, it epitomized a distinctly modern entanglement of narrative and event.

"The authors challenge currently dominant approaches to migration, and offer important ways to move between the individual experience and the structure of the world system."---Alan Smart, University of Calgary --

At the end of the 20th century nearly all developed nations have become countries of immigration, absorbing growing numbers of immigrants not only from developed regions, but increasingly from developing nations of the Third World. Although international migration has come to play a central role in the social, economic, and demographic dynamics of both immigrant-sending and immigrant-receiving countries, social scientists have been slow to construct a comprehensive theory to explain it. Efforts at theoretical explanation have been fragmented by disciplinary, geographic, and methodological boundaries. *Worlds in Motion* seeks to overcome these schisms to create a comprehensive theory of international migration for the next century. After explicating the various propositions and hypotheses of current theories, and identifying areas of complementarity and conflict, the authors review empirical research emanating from each of the world's principal international migration systems: North America, Western Europe, the Gulf, Asia and the Pacific, and the Southern Cone of South America. Using data from the 1980s, levels and patterns of migration within each system are described to define their structure and organization. Specific studies are then comprehensively surveyed to evaluate the fundamental propositions of neoclassical economics, the new economics of labour migration, segmented labour market theory, world systems theory, social capital theory, and the theory of cumulative causation. The various theories are also tested by applying them to the relationship between international migration and economic development. Although certain theories seem to function more effectively in certain systems, all contain elements of truth supported by empirical research. The task of the theorist is thus to identify which theories are most effective in accounting for international migration in the world today,

and what regional and national circumstances lead to a predominance of one theoretical mechanism over another. The book concludes by offering an empirically-grounded theoretical synthesis to serve as a guide for researchers and policy-makers in the 21st century.

A social history of cosmopolitanism in Southeast Asia's ethnically diverse port cities, seen within the global context of the interwar era.

Galileo's *Dialogue Concerning the Two Chief World Systems*, published in Florence in 1632, was the most proximate cause of his being brought to trial before the Inquisition. Using the dialogue form, a genre common in classical philosophical works, Galileo masterfully demonstrates the truth of the Copernican system over the Ptolemaic one, proving, for the first time, that the earth revolves around the sun. Its influence is incalculable. The *Dialogue* is not only one of the most important scientific treatises ever written, but a work of supreme clarity and accessibility, remaining as readable now as when it was first published. This edition uses the definitive text established by the University of California Press, in Stillman Drake's translation, and includes a Foreword by Albert Einstein and a new Introduction by J. L. Heilbron.

The America of the near future will look nothing like the America of the recent past. America is in the throes of a demographic overhaul. Huge generation gaps have opened up in our political and social values, our economic well-being, our family structure, our racial and ethnic identity, our gender norms, our religious affiliation, and our technology use. Today's Millennials -- well-educated, tech savvy, underemployed twenty-somethings -- are at risk of becoming the first generation in American history to have a lower standard of living than their parents. Meantime, more than 10,000 Baby Boomers are retiring every single day, most of them not as well prepared financially as they'd hoped. This graying of our population has helped polarize our politics, put stresses on our social safety net, and presented our elected leaders with a daunting challenge: How to keep faith with the old without bankrupting the young and starving the future. Every aspect of our demography is being fundamentally transformed. By mid-century, the population of the United States will be majority non-white and our median age will edge above 40 -- both unprecedented milestones. But other rapidly-aging economic powers like China, Germany, and Japan will have populations that are much older. With our heavy immigration flows, the US is poised to remain relatively young. If we can get our spending priorities and generational equities in order, we can keep our economy second to none. But doing so means we have to rebalance the social compact that binds young and old. In tomorrow's world, yesterday's math will not add up. Drawing on Pew Research Center's extensive archive of public opinion surveys and demographic data, *The Next America* is a rich portrait of where we are as a nation and where we're headed -- toward a future marked by the most striking social, racial, and economic shifts the country has seen in a century.

THE CLASSIC NATIONAL BESTSELLER "A wonderful, splendid book—a book that should be read by every American, student or otherwise, who wants to understand his country, its true history, and its hope for the future." —Howard Fast
Historian Howard Zinn's *A People's History of the United States* chronicles American history from the bottom up, throwing out the official narrative taught in schools—with its emphasis on great men in high places—to focus on the street, the home, and the workplace. Known for its lively, clear prose as well as its scholarly research, it is the only volume to tell America's story from the point of view of—and in the words of—America's women, factory workers, African-Americans, Native Americans, the working poor, and immigrant laborers. As Zinn shows, many of our country's greatest battles—the fights for a fair wage, an eight-hour workday, child-labor laws, health and safety standards, universal suffrage, women's rights, racial equality—were carried out at the grassroots level, against bloody resistance. Covering Christopher Columbus's arrival through President Clinton's first term, *A People's History of the United States* features insightful analysis of the most important events in our history. This edition also includes an introduction by Anthony Arnove, who wrote, directed, and produced *The People Speak* with Zinn and who coauthored, with Zinn, *Voices of a People's History of the United States*.

Self-propelled objects (particles, droplets) are autonomous agents that can convert energy from the environment into motion. These motions include nonlinear behaviour such as oscillations, synchronization, bifurcation, and pattern formation. In recent years, there has been much interest in self-propelled objects for their potential role in mass transport or their use as carriers in confined spaces. An improved understanding of self-organized motion has even allowed researchers to design objects for specific motion. This book gives an overview of the principles of self-propelled motion in chemical objects (particles, droplets) far from their thermodynamic equilibrium, at various spatial scales. Theoretical aspects, the characteristics of the motion and the design procedures of such systems are discussed from the viewpoint of nonlinear dynamics and examples of applications for these nonlinear systems are provided. This book is suitable for researchers and graduate students interested in physical and theoretical chemistry as well as soft matter.

Rotating flow is critically important across a wide range of scientific, engineering and product applications, providing design and modeling capability for diverse products such as jet engines, pumps and vacuum cleaners, as well as geophysical flows. Developed over the course of 20 years' research into rotating fluids and associated heat transfer at the University of Sussex Thermo-Fluid Mechanics Research Centre (TFMRC), *Rotating Flow* is an indispensable reference and resource for all those working within the gas turbine and rotating machinery industries. Traditional fluid and flow dynamics titles offer the essential background but generally include very sparse coverage of rotating flows—which is where this book comes in. Beginning with an accessible introduction to rotating flow, recognized expert Peter Childs takes you through fundamental equations, vorticity and vortices, rotating disc flow, flow around rotating cylinders and flow in rotating cavities, with an introduction to atmospheric and oceanic circulations included to help deepen understanding. Whilst competing resources are weighed down with complex mathematics, this book focuses on the essential equations and provides full workings to take readers step-by-step through the theory so they can concentrate on the practical

applications. A detailed yet accessible introduction to rotating flows, illustrating the differences between flows where rotation is significant and highlighting the non-intuitive nature of rotating flow fields. Written by world-leading authority on rotating flow, Peter Childs, making this a unique and authoritative work. Covers the essential theory behind engineering applications such as rotating discs, cylinders, and cavities, with natural phenomena such as atmospheric and oceanic flows used to explain underlying principles. Provides a rigorous, fully worked mathematical account of rotating flows whilst also including numerous practical examples in daily life to highlight the relevance and prevalence of different flow types. Concise summaries of the results of important research and lists of references included to direct readers to significant further resources.

Globalization is by no means a new phenomenon; transcontinental trade and the movement of people date back at least 2,000 years, to the era of the ancient Silk Road trade route. The global spread of infectious disease has followed a parallel course. Indeed, the emergence and spread of infectious disease are, in a sense, the epitome of globalization. Although some experts mark the fall of the Berlin Wall as the beginning of this new era of globalization, others argue that it is not so new. The future of globalization is still in the making. Despite the successful attempts of the developed world during the course of the last century to control many infectious diseases and even to eradicate some deadly afflictions, 13 million people worldwide still die from such diseases every year. On April 16 and 17, 2002, the Forum on Emerging Infections held a working group discussion on the influence of globalization on the emergence and control of infectious diseases. The contents of the unattributed sections are based on the presentations and discussions that took place during the workshop. The Impact of Globalization on Infectious Disease Emergence and Control report summarizes the presentations and discussions related to the increasing cross-border and cross-continental movements of people and how this could exacerbate the emergence and global spread of infectious diseases. This report also summarizes the means by which sovereign states and nations must adopt a global public health mind-set and develop a new organizational framework to maximize the opportunities and overcome the challenges created by globalization and build the necessary capacity to respond effectively to emerging infectious disease threats.

Grounded in scholarly analysis and personal reflection, and drawing on a multi-sited and multi-method research design, *Momentous Mobilities* disentangles the meanings attached to temporary travels and stays abroad and offers empirical evidence as well as novel theoretical arguments to develop an anthropology of mobility. Both focusing specifically on how various societies and cultures imagine and value boundary-crossing mobilities "elsewhere" and drawing heavily on his own European lifeworld, the author examines momentous travels abroad in the context of education, work, and spiritual quests and the search for a better quality of life.

An eminent psychologist offers a major new theory of human cognition: movement, not language, is the foundation of thought. When we try to think about how we think, we can't help but think of words. Indeed, some have called language the stuff of thought. But pictures are remembered far better than words, and describing faces, scenes, and events defies words. Anytime you take a shortcut or play chess or basketball or rearrange your furniture in your mind, you've done something remarkable: abstract thinking without words. In *Mind in Motion*, psychologist Barbara Tversky shows that spatial cognition isn't just a peripheral aspect of thought, but its very foundation, enabling us to draw meaning from our bodies and their actions in the world. Our actions in real space get turned into mental actions on thought, often spouting spontaneously from our bodies as gestures. Spatial thinking underlies creating and using maps, assembling furniture, devising football strategies, designing airports, understanding the flow of people, traffic, water, and ideas. Spatial thinking even underlies the structure and meaning of language: why we say we push ideas forward or tear them apart, why we're feeling up or have grown far apart. Like *Thinking, Fast and Slow* before it, *Mind in Motion* gives us a new way to think about how--and where--thinking takes place.

Since the end of the Cold War, increasing numbers of people have been forced to leave their homes as a result of armed conflict, internal strife, and systematic violations of human rights. Whereas refugees crossing national borders benefit from an established system of international protection and assistance, those who are displaced internally suffer from an absence of legal or institutional bases for their protection and assistance from the international community. This book analyzes the causes and consequences of displacement, including its devastating impact both within and beyond the borders of affected countries. It sets forth strategies for preventing displacement, a special legal framework tailored to the needs of the displaced, more effective institutional arrangements at the national, regional, and international levels, and increased capacities to address the protection, human rights, and reintegration and development needs of the displaced.

"Socialism is back and with it is a renewed interest in Marx's critique of capitalism. After the 2008 financial crash international book sales of *Capital* exploded for the first time in decades. In a world of rising income inequality, right-wing nationalisms, and global climate change, people are again looking to the father of modern socialism for answers. This book is written to help those returning to Marx today get answers to their pressing questions about the nature of wealth, ecological crisis, gender inequality, colonialism, migration, and the possibility of socialism. Marx, as always, remains our contemporary. This book also offers readers a new perspective on several major ideas in Marx's work. It argues that Marx, contrary to convention, did not think history was deterministic or that reality could be reduced to classical materialism. Marx was not an anthropocentric humanist nor did he have a labor theory of value. The unique contribution of this book is that it begins with Marx's earliest and most neglected book on ancient naturalism in order to show its lasting methodological effect on his "process materialism" defined by the primacy of motion. This "kinetic Marxism," as I call it, offers us a new way to re-read *Capital* that bears directly on a number of contemporary issues. This also makes *Mind in Motion* the first book to offer a new materialist reading of Marx. The result of all this is a fresh new view on the important theories of primitive accumulation, metabolism, value, fetishism, dialectics, and the possibility of a kinetic communism for the 21st century"--

'This monograph was begun during my residence as Rogers Memorial Fellow at Harvard University, and is based mainly upon a study of the sources, i.e., national, State, and colonial statutes, Congressional documents, reports of societies, personal narratives, etc. The collection of laws available for this research was, I think, nearly complete; on the other hand, facts and statistics bearing on the economic side of the study have been difficult to find, and my conclusions are consequently liable to modification from this source. The question of the suppression of the slave-trade is so intimately connected with the questions as to its rise, the system of American slavery, and the whole colonial policy of the eighteenth century, that it is difficult to isolate it, and at the same time to avoid superficiality on the one hand, and unscientific narrowness of

view on the other. While I could not hope entirely to overcome such a difficulty, I nevertheless trust that I have succeeded in rendering this monograph a small contribution to the scientific study of slavery and the American Negro.' William Edward Burghardt "W. E. B." Du Bois (1868 – 1963) was an American sociologist, historian, civil rights activist, Pan-Africanist, author, writer and editor. Born in Great Barrington, Massachusetts, Du Bois grew up in a relatively tolerant and integrated community. After completing graduate work at the University of Berlin and Harvard, where he was the first African American to earn a doctorate, he became a professor of history, sociology and economics at Atlanta University. Du Bois was one of the co-founders of the National Association for the Advancement of Colored People in 1909.

Worlds in Motion : Understanding International Migration at the End of the Millennium
Clarendon Press

The bicycle is a common, yet unique mechanical contraption in our world. In spite of this, the bike's physical and mechanical principles are understood by a select few. You do not have to be a genius to join this small group of people who understand the physics of cycling. This is your guide to fundamental principles (such as Newton's laws) and the book provides intuitive, basic explanations for the bicycle's behaviour. Each concept is introduced and illustrated with simple, everyday examples. Although cycling is viewed by most as a fun activity, and almost everyone acquires the basic skills at a young age, few understand the laws of nature that give magic to the ride. This is a closer look at some of these fun, exhilarating, and magical aspects of cycling. In the reading, you will also understand other physical principles such as motion, force, energy, power, heat, and temperature.

Today, 215 million people live outside their home countries and another 700 million say they would migrate to another country if they could. This volume examines the ways both sending and receiving nations are modifying their migration policies to control entry, to encourage assimilation, and to build links between diasporas and their home countries.

The current practice of the cult of María Lionza is one of the most important and yet unexplored religious practices in Venezuela. Based on long-term fieldwork, this book explores the role of images and visual culture within the cult. By adopting a relational approach, *A Goddess in Motion* shows how the innumerable images of this goddess—represented as an Indian, white or mestizo woman—move constantly from objects to bodies, from bodies to dreams, and from the religion domain to the art world. In short, this book is a fascinating study that sheds light on the role of visual creativity in contemporary religious manifestations.

This book shows how the web-based PhysGL programming environment (<http://physgl.org>) can be used to teach and learn elementary mechanics (physics) using simple coding exercises. The book's theme is that the lessons encountered in such a course can be used to generate physics-based animations, providing students with compelling and self-made visuals to aid their learning. Topics presented are parallel to those found in a traditional physics text, making for straightforward integration into a typical lecture-based physics course. Users will appreciate the ease at which compelling OpenGL-based graphics and animations can be produced using PhysGL, as well as its clean, simple language constructs. The author argues that coding should be a standard part of lower-division STEM courses, and provides many anecdotal experiences and observations, that include observed benefits of the coding work.

In a world that is dominated by computer images, alternative stop motion techniques like pixilation, time-lapse photography and down-shooting techniques combined with new technologies offer a new, tangible and exciting approach to animation. With over 25 years professional experience, industry veteran, Tom Gasek presents a comprehensive guide to stop motion animation without the focus on puppetry or model animation. With tips, tricks and hands-on exercises, *Frame by Frame* will help both experienced and novice filmmakers get the most effective results from this underutilized branch of animation. Practical insight and inspiration from leading filmmakers like PES (Western Spaghetti Creator, Time Magazine's #2 Viral Video of 2008), Dave Borthwick, of the Bolex Brothers and more! The accompanying website will include further content driven examples, indexes of stop motion software, a recommended film list and tools and resources for the beginner and intermediate stop motion artist, animators and filmmakers. *Introduction to Sports Biomechanics* has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.

"A 22-volume, highly illustrated, A-Z general encyclopedia for all ages, featuring sections on how to use World Book, other research aids, pronunciation key, a student guide to better writing, speaking, and research skills, and comprehensive index"--

Bioinspired Legged Locomotion: Models, Concepts, Control and Applications explores the universe of legged robots, bringing in perspectives from engineering, biology, motion science, and medicine to provide a comprehensive overview of the field. With comprehensive coverage, each chapter brings outlines, and an abstract, introduction, new developments, and a summary.

Beginning with bio-inspired locomotion concepts, the book's editors present a thorough review of current literature that is followed by a more detailed view of bouncing, swinging, and balancing, the three fundamental sub functions of locomotion. This part is closed with a presentation of conceptual models for locomotion. Next, the book explores bio-inspired body design, discussing the concepts of motion control, stability, efficiency, and robustness. The morphology of legged robots follows this discussion, including biped and quadruped designs. Finally, a section on high-level control and applications discusses neuromuscular models, closing the book with examples of applications and discussions of performance, efficiency, and robustness. At the end, the editors share their perspective on the future directions of each area, presenting state-of-the-art knowledge on the subject using a structured and consistent approach that will help researchers in both academia and industry formulate a better understanding of bioinspired legged robotic locomotion and quickly apply the concepts in research or products. Presents state-of-the-art control approaches with biological relevance Provides a thorough understanding of the principles of organization of biological locomotion Teaches the organization of complex systems based on low-dimensional motion concepts/control Acts as a guideline reference for future robots/assistive devices with legged architecture Includes a selective bibliography on the most relevant published articles

Action Analysis is one of the fundamental principles of animation that underpins all types of animation: 2d, 3d, computer animation, stop motion, etc. This is a fundamental skill that all animators need to create polished, believable animation. An example of Action Analysis would be Shrek's swagger in the film, *Shrek*. The animators clearly understood (through action analysis) the type of walk achieved by a large and heavy individual (the real) and then applied their observations to the animated character of an ogre (the fantastic). It is action analysis that enabled the animation team to visually translate a real life situation into an ogre's walk, achieving such fantastic results. Key animation skills are demonstrated with in-depth illustrations, photographs and live action footage filmed with high speed cameras. Detailed Case Studies and practical assignments ground action analysis methodology with real life examples. *Action Analysis for Animators* is a essential guide for students, amateurs and professionals. * A title that unites classic principles of Action Analysis with contemporary workflows. Apply the practices of action analysis to any animaton process. * Extensive illustrations of people and animals in motion that break down the action of animals and humans in a step-by-

step manner. * Tips included throughout the book on how to capture motion and analyse action. * Detailed case studies illustrated with line drawings, diagrams, photographs and live action footage, integrate real world examples with practical knowledge. * Website included as a resource for amateur and experience animators, featuring Short Animations and Live Action examples juxtaposed with stills of animals and humans in motion.

Although the field of deliberative civic engagement is growing rapidly around the world, our knowledge and understanding of its practice and impacts remain highly fragmented. *Democracy in Motion* represents the first comprehensive attempt to assess the practice and impact of deliberative civic engagement. Organized in a series of chapters that address the big questions of deliberative civic engagement, it uses theory, research, and practice from around the world to explore what we know about, how we know it, and what remains to be understood. More than a simple summary of research, the book is designed to be accessible and useful to a wide variety of audiences, from scholars and practitioners working in numerous disciplines and fields, to public officials, activists, and average citizens who are seeking to utilize deliberative civic engagement in their communities. The book significantly enhances current scholarship, serving as a guide to existing research and identifying useful future research. It also has promise for enhancing practice, for example by helping practitioners, public officials, and others better think through and articulate issues of design and outcomes, thus enabling them to garner more support for public deliberation activities. In addition, by identifying what remains to be learned about public deliberation, practitioners and public officials may be inspired to connect with scholars to conduct research and evaluations of their efforts.

The essays collected in *World in Motion* all address the same issue: The global paradox that modern prosperity has entailed extreme environmental degradation. Gary M. Kroll and Richard H. Robbins present readings covering all principal viewpoints on this matter, from the neoliberal belief that environmental and social problems can be fixed through a growing economy to the critics of globalization who equate growth with environmental degradation. This book asks an important question: Can we simply accelerate growth under the assumption that increased prosperity and new technologies will allow us to reverse environmental damage? Or do we need to transform our modes of living radically to maintain the health of the world around us?

Studying the im/mobility trajectories of West Africans in the EU, this book presents a new approach to West African migrants in Europe. It argues that a migration lens is not necessarily the best starting point to understand these dynamic im/mobility processes. Rather than seeing migrancy as the primary marker of their lives, this book positions these trajectories in a wider social script of mobility and discusses how African migrants are confronted with rigid mobility regimes, but also how they manage to transgress and circumvent them.

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