Atlas Editions Models

The hidden costs of artificial intelligence, from natural resources and labor to privacy and freedom What happens when artificial intelligence saturates political life and depletes the planet? How is AI shaping our understanding of ourselves and our societies? In this book Kate Crawford reveals how this planetary network is fueling a shift toward undemocratic governance and increased inequality. Drawing on more than a decade of research, award-winning science, and technology, Crawford reveals how AI is a technology of extraction: from the energy and minerals needed to build and sustain its infrastructure, to the exploited workers behind "automated" services, to the data AI collects from us. Rather than taking a narrow focus on code and algorithms, Crawford offers us a political and a material perspective on what it takes to make artificial intelligence and where it goes wrong. While technical systems present a veneer of objectivity, they are always systems of power. This is an urgent account of what is at stake as technology companies use artificial intelligence to reshape the world.

Foreword by Sir Arthur C Clarke. Space exploration began with model and toy rockets. History shows that the greatest Rocketeers began their careers flying model rockets. Now in this book the story of the space race is told in dazzling colour. From the birth of models to the present day the toy rockets have often inspired the real rockets of the future. In fact model manufacturers like Revell and Aurora were frequently in trouble with the defence department for revealing military secrets! This is the Story of the Space Age, and uses the models to illustrate the way history twisted and turned to put us where we are today -- and maybe how space travel will develop in the future.

THE DEFINITIVE GUIDE TO THE ULTIMATE INTERGALACTIC BATTLEFIELD Like many a great epic, Star Wars is rooted in a rich history of armed conflict. Now, for the first time, the facts, figures, and fascinating backstories of major clashes and combatants in the vast Star Wars universe have been documented in one fully illustrated volume. Extensively researched and inventively written, Star Wars: The Essential Guide to Warfare combines action-filled narrative with encyclopedic knowledge that: • explores notable military units and groups • traces the development of significant armaments and technologies • profiles key warship classes, ground units, and manufacturers • provides capsule biographies of great military leaders • presents eyewitness troopers' accounts of combat • plus—enough additional profiles, intel, history, and lore to span the cosmos! Encompassing all of the Star Wars media, including the legendary films, the hit TV series Star Wars: The Clone Wars, the bestselling books, comics, and videogames, and packed with original artwork, Star Wars: The Essential Guide to Warfare is a conquering achievement.

Maps capture data expressing the economic complexity of countries from Albania to Zimbabwe, offering current economic measures and as well as a guide to achieving prosperity Why do some countries grow and others do not? The authors of The Atlas of Economic Complexity offer readers an explanation based on "Economic Complexity," a measure of a society's productive knowledge. Prosperous societies are those that have the knowledge to make a larger variety of more complex products. The Atlas of Economic Complexity attempts to measure the amount of productive knowledge countries hold and how they can move to accumulate more of it by making more

complex products. Through the graphical representation of the "Product Space," the authors are able to identify each country's "adjacent possible," or potential new products, making it easier to find paths to economic diversification and growth. In addition, they argue that a country's economic complexity and its position in the product space are better predictors of economic growth than many other well-known development indicators, including measures of competitiveness, governance, finance, and schooling. Using innovative visualizations, the book locates each country in the product space, provides complexity and growth potential rankings for 128 countries, and offers individual country pages with detailed information about a country's current capabilities and its diversification options. The maps and visualizations included in the Atlas can be used to find more viable paths to greater productive knowledge and prosperity.

The primary goal of this book is to provide a sound understanding of wide bandgap Silicon Carbide (SiC) power semiconductor device simulation using Silvaco© ATLAS Technology Computer Aided Design (TCAD) software. Physics-based TCAD modeling of SiC power devices can be extremely challenging due to the wide bandgap of the semiconductor material. The material presented in this book aims to shorten the learning curve required to start successful SiC device simulation by providing a detailed explanation of simulation code and the impact of various modeling and simulation parameters on the simulation results. Non-isothermal simulation to predict heat dissipation and lattice temperature rise in a SiC device structure under switching condition has been explained in detail. Key pointers including runtime error messages, code debugging, implications of using certain models and parameter values, and other factors beneficial to device simulation are provided based on the authors' experience while simulating SiC device structures. This book is useful for students, researchers, and semiconductor professionals working in the area of SiC semiconductor technology. Readers will be provided with the source code of several fully functional simulation programs that illustrate the use of Silvaco© ATLAS to simulate SiC power device structure, as well as supplementary material for download.

Learn the history, spotting features, characteristics, and operation of diesel locomotives, plus how to determine appropriate eras, and details and features.

The only anatomy atlas illustrated by physicians, Atlas of Human Anatomy, 7th edition, brings you world-renowned, exquisitely clear views of the human body with a clinical perspective. In addition to the famous work of Dr. Frank Netter, you'll also find nearly 100 paintings by Dr. Carlos A. G. Machado, one of today's foremost medical illustrators. Together, these two uniquely talented physician-artists highlight the most clinically relevant views of the human body. In addition, more than 50 carefully selected radiologic images help bridge illustrated anatomy to living anatomy as seen in everyday practice. Region-by-region coverage, including Muscle Table appendices at the end of each section. Large, clear illustrations with comprehensive labels not only of major structures, but also of those with important relationships. Updates to the 7th Edition – based on requests from students and practitioners alike: New Systems Overview section featuring brand-new, full-body views of surface anatomy, vessels, nerves, and lymphatics. More than 25 new illustrations by Dr. Machado, including the clinically important fascial columns of the neck, deep veins of the leg, hip bursae, and vasculature of the prostate; and difficult-to-visualize areas like the infratemporal fossa.

New Clinical Tables at the end of each regional section that focus on structures with high clinical significance. These tables provide quick summaries, organized by body system, and indicate where to best view key structures in the illustrated plates. More than 50 new radiologic images – some completely new views and others using newer imaging tools – have been included based on their ability to assist readers in grasping key elements of gross anatomy. Updated terminology based on the international anatomic standard, Terminologia Anatomica, with common clinical eponyms included. Enlarged edition of a classic reference features clear directions for drawing horses, dogs, cats, lions, cattle, deer, and other creatures. Covers muscles, skeleton, and full external views. 288 illustrations.

In this innovative study, Lukas Engelmann examines visual traditions in modern medical history through debates about the causes, impact and spread of AIDS. Utilising medical AIDS atlases produced between 1986 and 2008 for a global audience, Engelmann argues that these visual textbooks played a significant part in the establishment of AIDS as a medical phenomenon. However, the visualisations risked obscuring the social, cultural and political complexity of AIDS history. Photographs of patients were among the earliest responses to the mysterious syndrome, cropped and framed to deliver a visible characterisation of AIDS to a medical audience. Maps then offered an abstracted image of the regions invaded by the epidemic, while the icon of the virus aspired to capture the essence of AIDS. The epidemic's history is retold through clinical photographs, epidemiological maps and icons of HIV, asking how this devastating epidemic has come to be seen as a controllable chronic condition.

Learn how to get your locomotive, train set, or complete model railroad operating -- even if you don't understand the principles of electricity! Teaches basic electrical connections for a two-rail DC powered layout of any size or complexity. Basic layout wiring techniques are presented simply, with numerous photos, illustrations, and diagrams.

This book constitutes the thoroughly refereed post-workshop proceedings of the 10th International Workshop on Statistical Atlases and Computational Models of the Heart: Atrial Segmentation and LV Quantification Challenges, STACOM 2019, held in conjunction with MICCAI 2019, in Shenzhen, China, in October 2019. The 42 revised full workshop papers were carefully reviewed and selected from 76 submissions. The topics of the workshop included: cardiac imaging and image processing, machine learning applied to cardiac imaging and image analysis, atlas construction, statistical modelling of cardiac function across different patient populations, cardiac computational physiology, model customization, atlas based functional analysis, ontological schemata for data and results, integrated functional and structural analyses, as well as the pre-clinical and clinical applicability of these methods.

Forecasting the future with advanced data models and visualizations. To envision and create the futures we want, society needs an appropriate understanding of the likely impact of alternative actions. Data models and visualizations offer a way to understand and intelligently manage complex, interlinked systems in science and technology, education, and policymaking. Atlas of Forecasts, from the creator of Atlas of Science and Atlas of Knowledge, shows how we can use data to predict, communicate, and ultimately attain desirable futures. Using advanced data visualizations to introduce different types of computational models, Atlas of Forecasts demonstrates how models

can inform effective decision-making in education, science, technology, and policymaking. The models and maps presented aim to help anyone understand key processes and outcomes of complex systems dynamics, including which human skills are needed in an artificial intelligence-empowered economy; what progress in science and technology is likely to be made; and how policymakers can future-proof regions or nations. This Atlas offers a driver's seat-perspective for a test-drive of the future.

Solar radiation data is important for a wide range of applications, e.g. in engineering, agriculture, health sector, and in many fields of the natural sciences. A few examples showing the diversity of applications may include: architecture and building design, e.g. air conditioning and cooling systems; solar heating system design and use; solar power generation; evaporation and irrigation; calculation of water requirements for crops; monitoring plant growth and disease control; skin cancer research.

This full-colour atlas is designed for all students taking either separate or integrated courses in physiology and/or anatomy. The atlas can accompany or augment any human anatomy, human physiology or combined textbook, and should be of particular use in a laboratory situation, where it can stand alone as a laboratory manual.

Peopled by larger-than-life heroes and villains, charged with towering questions of good and evil, Atlas Shrugged is Ayn Rand's magnum opus: a philosophical revolution told in the form of an action thriller—nominated as one of America's best-loved novels by PBS's The Great American Read. Who is John Galt? When he says that he will stop the motor of the world, is he a destroyer or a liberator? Why does he have to fight his battles not against his enemies but against those who need him most? Why does he fight his hardest battle against the woman he loves? You will know the answer to these questions when you discover the reason behind the baffling events that play havoc with the lives of the amazing men and women in this book. You will discover why a productive genius becomes a worthless playboy...why a great steel industrialist is working for his own destruction...why a composer gives up his career on the night of his triumph...why a beautiful woman who runs a transcontinental railroad falls in love with the man she has sworn to kill. Atlas Shrugged, a modern classic and Rand's most extensive statement of Objectivism—her groundbreaking philosophy—offers the reader the spectacle of human greatness, depicted with all the poetry and power of one of the twentieth century's leading artists.

This book constitutes the proceedings of the 11th International Workshop on Statistical Atlases and Computational Models of the Heart, STACOM 2020, as well as two challenges: M&Ms - The Multi-Centre, Multi-Vendor, Multi-Disease Segmentation Challenge, and EMIDEC - Automatic Evaluation of Myocardial Infarction from Delayed-Enhancement Cardiac MRI Challenge. The 43 full papers included in this volume were carefully reviewed and selected from 70 submissions. They deal with cardiac imaging and image processing, machine learning applied to cardiac imaging and image analysis, atlas construction,

artificial intelligence, statistical modelling of cardiac function across different patient populations, cardiac computational physiology, model customization, atlas based functional analysis, ontological schemata for data and results, integrated functional and structural analyses, as well as the pre-clinical and clinical applicability of these methods.

Catalog of an exhibition held at The Museum of Modern Art, New York, Feb. 19-May 14, 2012.

Renowned for its accuracy, pedagogy, and clinical relevance, this classic anatomy atlas is updated and features such improvements as updated artwork, more vital tissues colors, new conceptual diagrams, vibrantly re-colored illustrations, and a more consistent art style.

Complete Atlas of the World, 3rd Edition is now fully revised and updated to reflect the latest changes in world geography, including the annexation of Crimea and the new nation of South Sudan. Bringing each featured landscape to life with detailed terrain models and color schemes and offering maps of unsurpassed quality, this atlas features four sections: a world overview, the main atlas, fact files on all the countries of the world, and an easy-to-reference index of all 100,000 place names. All maps enjoy a full double-page spread, with continents broken down into 330 carefully selected maps, including 100 city plans. You will also find a stimulating series of global thematic maps that explore Earth's place in the universe, its physical forms and processes, the living world, and the human condition. From Antarctica to Zambia, discover the Earth continent-by-continent with Complete Atlas of the World, 3rd Edition.

The explosion of interactive multimedia cartography products, on online, has generated an immense interest in developing methodologies that best exploit both the technology and the distribution capabilities of multimedia mapping. From a discussion of theoretical elements of multimedia cartography, to chapters on specific products and production tools, to an analysis of future technologies and applications, this is a comprehensive and absorbing exploration of a fast-moving field.

A fascinating insight into some of the most collectible diecast buses. Today, many magazines, clubs and events exist as the hobby thrives.

The 'ShipCraft' series provides in-depth information about building and modifying model kits of famous warship types. Lavishly illustrated, each book takes the modeller through a brief history of the subject class, highlighting differences between sisterships and changes in their appearance over their careers. This includes paint schemes and camouflage, featuring colour profiles and highly-detailed line drawings and scale plans. The modelling section reviews the strengths and weaknesses of available kits, lists commercial accessory sets for super-detailing of the ships, and provides hints on modifying and improving the basic kit. This is followed by an extensive photographic survey of selected high-quality models in a variety of scales, and the book concludes with a section on research references - books, monographs, large-scale plans and relevant websites. The two ships covered in this volume were the only capital ships designed and built between the wars - a special concession of the Washington Treaty's ban on new battleships - and they were unlike anything before them, with the superstructure three-quarters aft and all main armament turrets forward of the bridge. During the war Nelson survived mine and torpedo damage, while Rodney played a

major part in the destruction of the Bismarck, both surviving to be broken up post-war. This book constitutes the thoroughly refereed post-conference proceedings of the Third International Workshop on Statistical Atlases and Computational Models of the Heart: Imaging and Modelling Challenges, STACOM 2012, held in conjunction with MICCAI 2012, in Nice, France, in October 2012. The 42 revised full papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on CFD challenge, DE-MRI segmentation challenge, LV landmark detection challenge, motion tracking analysis challenge, and regular papers. Highly illustrated, a variety of manufacturers and types feature here - sure to please any die hard die-cast fan.

This book is a completely updated, greatly expanded version of the previously successful volume by the author. The Second Edition includes new results and data, and discusses a unified framework and rationale for designing and evaluating image processing algorithms. Written from the viewpoint that image processing supports remote sensing science, this book describes physical models for remote sensing phenomenology and sensors and how they contribute to models for remote-sensing data. The text then presents image processing techniques and interprets them in terms of these models. Spectral, spatial, and geometric models are used to introduce advanced image processing techniques such as hyperspectral image analysis, fusion of multisensor images, and digital elevationmodel extraction from stereo imagery. The material is suited for graduate level engineering, physical and natural science courses, or practicing remote sensing scientists. Each chapter is enhanced by student exercises designed to stimulate an understanding of the material. Over 300 figuresare produced specifically for this book, and numerous tables provide a rich bibliography of the research literature.

Thoroughly revised for its Third Edition, "Foundations of Osteopathic Medicine" is the most comprehensive, current osteopathic text. This edition features expanded coverage of international practice and includes a new chapter on the structure of the profession. This book constitutes the thoroughly refereed post-workshop proceedings of the 9th International Workshop on Statistical Atlases and Computational Models of the Heart: Atrial Segmentation and LV Quantification Challenges, STACOM 2018, held in conjunction with MICCAI 2018, in Granada, Spain, in September 2018. The 52 revised full workshop papers were carefully reviewed and selected from 60 submissions. The topics of the workshop included: cardiac imaging and image processing, machine learning applied to cardiac imaging and image analysis, atlas construction, statistical modelling of cardiac function across different patient populations, cardiac computational physiology, model customization, atlas based functional analysis, ontological schemata for data and results, integrated functional and structural analyses, as well as the pre-clinical and clinical applicability of these methods.

This atlas – and its accompanying text - is the most comprehensive work on avian neuroanatomy available so far. It identifies more than 900 hundred structures (versus ca. 250 in previous avian atlases), 180 of them for the first time. It correlates avian and mammalian neuroanatomy on the basis of homologies and applies mammalian terms to homologous avian structures. This is the first atlas that represents the fundamental histogenetic domains of the vertebrate neuroaxis on the basis of sound fate-mapping and gene expression data. This results in a substantial increase in accuracy of

delineations. Developmental molecular biologists will find it easier to extrapolate early neural tube patterns into mature structures. The modern trend to shift avian neuroanatomical nomenclature toward mammalian terminology by reference to postulated homologies has been expanded to the entire brain, but is not yet complete. This creates a new standard for comparative cross-reference, which can also be applied to reptilian-mammalian comparisons. Color photographs and matching diagrams of 65 coronal, 23 sagittal and 9 horizontal 140 micron-thick sections reacted histochemically for acetylcholinesterase (AChE). Thoroughly revised drawings. Updated view of the pallium, including the new concept of homology between the lateral pallium and the mammalian claustro-insular complex. Extensive introductory text and bibliography, presenting the background information, methodology and justification of delineations. For the first time in any species, this atlas depicts the fate-mapped natural embryonic boundaries in the postnatal brain. For the first time, we present color images of all the 6 histological stains (AChE, Nissl, TH, calbindin, calretinin and parvalbumin) on which delineations are based (accompanying Expert Consult eBook). Includes the Expert Consult eBook version, compatible with PC, Mac, and most mobile devices and eReaders, which allows readers to browse, search, and interact with content. The eBook also contains annotatable AI files of diagrams for use by researchers. "Discover the animals of the world and get inspired to build!"--Cover.

Copyright: 4ad46a978e6c40373915ab1bc476c91d