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the u s government has made safeguarding of weapons grade plutonium and highly enriched uranium an international policy priority and convened the 2010 nuclear security summit in washington d c on april 12 and 13 2010 forty six governments sent delegations to the summit and twenty nine of them made national commitments to support nuclear security during the summit india announced its commitment to establish a global centre for nuclear energy partnership the centre is to be open to international participation through academic exchanges training and research and development efforts india united states cooperation on global security is the summary of a workshop held by the u s national academy of sciences nas together with its partner of more than 15 years the national institute for advanced studies nias in bangalore india the workshop identified and examined potential areas for substantive scientific and technical cooperation between the two countries on issues related to nuclear material security technical experts from india and the united states focused on topics of

nuclear material security and promising opportunities for india and the united states to learn from each other and cooperate this report discusses nuclear materials management issues such as nuclear materials accounting cyber security physical security and nuclear forensics

from breakthrough to blockbuster the business of biotechnology tells the astonishing story of how the biotech industry grew to thousands of small companies around the world competing with the major pharmaceutical companies that had dominated for a century and how academic research venture capital and contract research organizations worked together to support them

prostate cancer metabolism from biochemistry to therapeutics shows the peculiarities of prostate cancer metabolism emphasizing the targetable aspects that have not been considered in conventional treatment protocols the book specifically addresses treatment of the castration resistant stage of prostate cancer proposing many repurposed drugs and nutraceuticals to complement not replace standard therapies the large body of evidence supporting these concepts makes them deserving of further research and well designed clinical trials it discusses lipid cholesterol glutamine and glucose metabolisms and their impact on prostate cancer additionally it explains how current established drugs can be repurposed to improve treatment outcomes the concepts set out in the book that deal with cancer at the cellular molecular level help identify new avenues of research and treatments to pursue that do not affect well being whilst offer consistent benefits since most practicing physicians have not studied basic biochemistry since medical school each chapter begins with a brief review of the topic to facilitate an understanding of the metabolically oriented approach to targeting prostate cancer conventional treatments are not discussed here since they are covered in textbooks and specialized updates that abound in the medical literature it is a valuable resource for cancer researchers oncologists clinicians and members of biomedical field who want to learn more about prostate cancer metabolism and how to apply recent findings in the field to bedside explains the basic aspects of prostate cancer metabolism including its biochemistry which has a pivotal role in clinical practice discusses new drugs and nutraceuticals with a metabolism centered approach offers practical bedside approach in combination with molecular and biochemical fundamentals to help readers identify and provide the best treatment to their patients

this volume is a welcome and timely contribution to a topic of enduring importance the global consequences of recent food price crises underscore the need to examine food security issues from diverse perspectives this volume meets that need featuring accessible yet cutting edge analyses of food security by leading experts in fields as diverse as trade nutrition public health production political economy and behavioral economics it will be of interest to a wide range of scholars and practitioners steven block tufts university us this excellent volume offers a compact but wide ranging survey of recent research on important changes in global food markets its 20 chapters accurately capture important areas of scholarly agreement as well as on going debates among economists studying agriculture and nutrition with several provocative original contributions from other fields the book draws particularly on the authors long experience in asia offering widely applicable insights for scholars and policy analysts seeking to understand the past present and future of food around the world william a masters tufts university us the global population is forecasted to reach 9.4 billion by 2050 with much of this increase concentrated in developing regions and cities ensuring adequate food

and nourishment to this large population is a pressing economic moral and even security challenge and requires research and action from a multi disciplinary perspective this book provides the first such integrated approach to tackling this problem by addressing the multiplicity of challenges posed by rising global population diet diversification and urbanization in developing countries and climate change it examines key topics such as the impact of prosperity on food demand the role of international trade in addressing food insecurity the challenge posed by greenhouse gas emissions from agriculture and land degradation the implication on labor markets of severe under nutrition viability of small scale farms strategies to augment food availability the handbook on food would be a welcome supplementary text for courses on development economics particularly those concentrating on agricultural development climate change and food availability as well as nutrition

artificial intelligence ai is a field within computer science that is attempting to build enhanced intelligence into computer systems this book traces the history of the subject from the early dreams of eighteenth century and earlier pioneers to the more successful work of today s ai engineers ai is becoming more and more a part of everyone s life the technology is already embedded in face recognizing cameras speech recognition software internet search engines and health care robots among other applications the book s many diagrams and easy to understand descriptions of ai programs will help the casual reader gain an understanding of how these and other ai systems actually work its thorough but unobtrusive end of chapter notes containing citations to important source materials will be of great use to ai scholars and researchers this book promises to be the definitive history of a field that has captivated the imaginations of scientists philosophers and writers for centuries

k nstliche intelligenz ki ist der bereich der informatik bei dem es darum geht maschinen mit fortgeschrittener intelligenz auszustatten in diesem buch folgen sie den spuren der geschichte dieser disziplin von den tr umen der ersten pioniere im 18 jahrhundert bis hin zu der weitaus erfolgreicheren arbeit der heutigen ki forschler ki wird mehr und mehr zum bestandteil unseres allt glichen lebens die technologie ist u a bereits teil von gesichtserkennungssystemen spracherkennungssoftware suchmaschinen im internet und im gesundheitswesen eingesetzten robotern dank der zahlreichen diagramme und abbildungen und der problemlos zu verstehenden beschreibungen von ki programmen bekommen auch auf diesem gebiet unerfahrene leserinnen und leser hier einen umfassenden einblick darin wie diese und andere ki systeme funktionieren die durchgehenden und doch vergleichsweise dezenten anmerkungen am ende jedes kapitels enthalten zudem hinweise auf quellen und forschungsmaterial das ki lernenden und ki forschern wichtige hilfstellung liefern kann dieses buch ist die geschichte eines forschungsbereichs der forschler philosophen und autoren  ber jahrhunderte gefesselt hat und dies immer noch tut das buch enth lt erl uterungen zu einer unmenge an meilensteinen in der geschichte der ki genauso wie zu modernen ki anwendungen sie erfahren hier wesentliches  ber die gesamte geschichte des forschungsbereichs aus der sicht eines eingeweihten denn der autor hat  ber 50 jahre im bereich der ki gearbeitet es gelingt nilsson hervorragend technische inhalte auch f r laien verst ndlich zu erkl ren

haptics the state of the art in building touch based interfaces for virtual environments key research issues model acquisition contact detection force feedback compression capture and collaboration

understanding the role of human factors in haptic interfaces applications medical training telesurgery biological and scientific interfaces military applications sign language museum display and more haptics touch based interface design is the exciting new frontier in research on virtual and immersive environments in touch in virtual environments the field s leading researchers bring together their most advanced work and applications they identify the key challenges facing haptic interface developers present today s best solutions and outline a clear research agenda for the future this book draws upon work first presented at the breakthrough haptics conference held recently at usc s integrated media systems center the editors and contributors begins by reviewing key haptics applications and the challenges of effective haptic rendering presenting new insights into model acquisition contact detection force feedback compression capture collaboration and other key issues next they focus on the complex human factors associated with successful haptic interfaces examining questions such as how can we make haptic displays more usable for blind and visually impaired users what are the differences between perceiving texture with the bare skin and with a probe in the book s final section several of today s leading haptic applications are introduced including telesurgery and surgical simulation scientific visualization

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many developing countries are falling behind sustainable development goals food and nutrition levels have deteriorated due to conflict climate change and the covid pandemic while global ambitions for achieving sustainable food security and adequate nutrition have increased but what are the prospects of achieving sustainable healthy food for all what is the best response to concerns about growing differentiation among developing countries in terms of domestic agricultural and industrial performance how have global institutions established during the post world war two period helped developing countries to deal with the past economic fallout of food fuel and financial crises food for all explores how developments since these organizations were established have led to changes in the provision of international financial and technical assistance in support of the global food and agriculture system and how developing countries own efforts have helped transform them these developments and the increase in the number of global actors have expanded and complicated global governance presenting both opportunities for as well as challenges to the improvement of food systems this volume provides an analysis of the structure coordination and management of the food and agriculture organization of the united nations fao the international fund for agricultural development ifad and the world food programme wfp it also looks at the world bank the largest international funder of policy advice and investment projects and cgiar a leading funder of international agricultural research this is an open access title available under the terms of a cc by nc nd 4 0 international licence it is free to read at oxford scholarship online and offered as a free pdf download from oup and selected open access locations

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