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neural networks for engineers is a detailed guide that demystifies the intricacies of neural networks for engineers and practitioners starting with the human nervous system fundamentals this book draws parallels between biological neurons and their

artificial counterparts setting the stage for an in depth exploration of neural networks the book meticulously covers topics such as the mcculloch pitt neuron the origins of the perceptron and the evolution of modern neural networks chapter 1 introduces readers to the mp neuron the first artificial neuron designed in 1943 and provides an unmatched explanation of its formulation and the workings of perceptrons this chapter also highlights the manual calculations of perceptrons revealing how much neural network computations can be understood and performed manually enhancing transparency in fields like law enforcement and medicine chapter 2 builds on this foundation by exploring multi layer perceptrons mlps through the digit classification problem using the mnist dataset the book contrasts implementations in scikit learn and keras showing the advantages of modern deep learning frameworks it covers critical elements such as activation functions hyperparameter tuning and practical considerations for optimising neural networks chapter 3 delves into convolutional neural networks cnns explaining their design elements through detailed mathematical insights it emphasises the transition from mlps to cnns highlighting their applications in specialised fields like image and signal processing the chapter also discusses transfer learning making complex neural network capabilities accessible to smaller firms and novice engineers chapter 4 provides a gateway into recurrent neural networks rnns progressing from basic rnns to advanced structures like lstms and grus this chapter equips readers with knowledge of sequential data processing which is critical for next word prediction and sentiment analysis applications including hyperparameter tuning using the keras tuner further enhances the reader's ability to fine tune complex models neural networks for engineers combines theory computation and application offering comprehensive coverage of neural networks with hands on implementations in scikit learn keras and pytorch this book is ideal for engineers seeking to master neural networks and leverage their power in real world applications

this volume seeks to study the connections between two well studied epochs in chinese history the mid imperial era of the tang and song ca 800 1270 and the late imperial era of the late ming and qing 1550 1900 both eras are seen as periods of explosive change particularly in economic activity characterized by the emergence of new forms of social organization and a dramatic expansion in knowledge and culture the task of establishing links between these two periods has been impeded by a lack of knowledge of the intervening mongol yuan dynasty 1271 1368 this historiographical black hole has artificially interrupted the narrative of chinese history and bifurcated it into two distinct epochs this book aims to restore continuity to that historical narrative by filling the gap between mid imperial and late imperial china the contributors argue that the song yuan ming transition early twelfth through the late fifteenth century constitutes a distinct historical period of transition and not one of interruption and devolution they trace this transition by investigating such subjects as contemporary impressions of the

period the role of the mongols in intellectual life the economy of jiangnan urban growth neo confucianism and local society commercial publishing comic drama and medical learning

co authored by an interprofessional collaborative team of physicians and nurses merenstein gardner s handbook of neonatal intensive care 9th edition is the leading resource for interprofessional collaborative care of critically ill newborns it offers comprehensive coverage with a unique interprofessional collaborative approach and a real world perspective that make it a practical guide for both nurses and physicians the new ninth edition features a wealth of expanded content on delivery room care new evidence based care bundles palliative care in the nicu interprofessional collaborative care of parents with depression grief and complicated grief and new pain assessment tools updated high quality references have also been reintegrated into the book making it easier for clinicians to locate research evidence and standards of care with minimal effort these additions along with updates throughout ensure that clinicians are equipped with the very latest clinical care guidelines and practice recommendations all in a practical quick reference format for easy retrieval and review unique core author team of two physicians and two nurses gives this internationally recognized reference a true interprofessional collaborative approach that is unmatched by any other resource consistent organization within clinical chapters include physiology pathophysiology etiology prevention data collection history signs and symptoms and laboratory data treatment intervention complications and parent teaching sections unique color highlighted point of care clinical content makes high priority clinical content quick and easy to find unique parent teaching boxes outline the relevant information to be shared with a patient s caregivers critical findings boxes outline symptoms and diagnostic findings that require immediate attention to help the provider prioritize assessment data and steps in initial care case studies demonstrate how to apply essential content to realistic clinical scenarios for application based learning new updated content throughout reflects the latest evidence based practice national and international guidelines and current protocols for interprofessional collaborative practice in the nicu new up to date high quality references are now reintegrated into the text for quick retrieval making it easier for clinicians to locate research evidence and standards of care with minimal effort new expanded content on delivery room care includes the impact of staffing on quality of care delayed cord clamping resuscitation and more new coverage of the new evidence based care bundles keeps clinicians up to date on new guidelines that have demonstrated improved outcomes of very preterm infants new coverage of new pain assessment tools equips nicu providers with essential resources for maintaining patient comfort new expanded coverage of palliative care in the nicu provides the tools needed to ensure patient comfort new expanded coverage of interprofessional collaborative care of parents with depression grief and complicated

grief prepares clinicians for this essential area of practice

the work of morag harris is firmly grounded in the domain of aesthetics her interests lie in the linguistic transformations that take place when the received signs of conventional poetic language metamorphose into the idiosyncratic symbols of a new poem at the same time this transformation reflects an increment of increase in the identity of the poet as a poet a fusion of objective and subjective to create a third thing

smart food industry the blockchain for sustainable engineering volume ii current status future foods and global issues reviews the literature and scientific frameworks to present a kind of sustainability compass disruptive approaches around potential sustainable foods are also widely investigated in order to be an alternative route for the industrial future thus this book proposes new concepts and strategies to face future sustainability challenges that are on the horizon and can impact the next generation of foods divided into three parts this book discusses the i status of sustainable food industry ii next generation and future technology for sustainable foods and iii policy social economic and environmental aspects in food industries given the book s breadth it provides readers with an invaluable reference resource for students researchers graduates and professionals in general who wish to gain knowledge about the engineering and food processing area so as to achieve sustainable food production

technological change is at the core of all major disruptions in human history and revolutions wars and general development are regularly connected to some sort of technological change however not all development is beneficial while technology has fueled great innovations and rapid development the notion of sustainable development has gained prominence as we now experience serious social economic and environmental challenges this book examines whether technology can be used to fix the very problems caused by technology as the various chapters examine different aspects related to how technology has brought us where we are today which some will say is the best place humanity s been at according to a range of metrics and whether technology helps or hinders us in our efforts to solve the challenges we currently face the issues discussed cover the three sustainability dimensions and include topics such as the materiality of ai technology in education ai for gender equality innovation and the digital divide and how technology relates to power the political system and capitalism the chapters all build on the theoretical backdrop of technological change sustainable development and the un s sustainable development goals are actively used throughout this book both to examine how these goals capture or overlook central elements of sustainable development and also to facilitate and create a common framework of engagement between the chapters this book provides a novel combination of traditional theories that are explored through different case studies

providing the ground for a better understanding of how and when technology can and cannot be the enabler of sustainable development it is thus an important resource for students of all disciplines technologists and those developing and applying new technologies it is also a valuable resource for politicians and regulators attempting to harness the power of technology for good while limiting its negative potential the open access version of this book available at taylorfrancis.com has been made available under a creative commons attribution non commercial no derivatives cc by nc nd 4.0 license funded by Østfold university college

this second edition updates the information on the different topics discussed in the first edition this comprehensive work focuses on the acute and chronic transforming retroviruses cellular and viral oncogenes functions of oncogene and protooncogene protein products and oncogenes and cancer the number of oncogenes presently identified has grown to more than double of that which was discussed in the first edition of this book it more clearly explains the relation of protooncogenes to neoplastic diseases especially to human cancer this updated edition is an absolute must for all physicians and biologists

new discoveries in the field of stem cells increasingly dominate the news and scientific literature revealing an avalanche of new knowledge and research tools that are producing therapies for cancer heart disease diabetes and a wide variety of other diseases that afflict humanity the handbook of stem cells integrates this exciting area of life science combining in two volumes the requisites for a general understanding of adult and embryonic stem cells organized in two volumes entitled pluripotent stem cells and cell biology and adult and fetal stem cells this work contains contributions from the world's experts in stem cell research to provide a description of the tools methods and experimental protocols needed to study and characterize stem cells and progenitor populations as well as the latest information of what is known about each specific organ system provides comprehensive coverage on this highly topical subject contains contributions by the foremost authorities and premiere names in the field of stem cell research companion website booksite.elsevier.com/9780123859426 contains over 250 color figures in presentation format

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