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Multimedia Information Extraction and Digital Heritage Preservation Usha Mujoo Munshi, Bidyut Baran Chaudhuri, 2011 The volume focuses on research oriented work which can help opening up new vistas of research for the research community and explore new mechanisms of retrieval of information from multimedia documents particularly from heritage documents apart from using the conventional methods

Deep Learning for Smart Healthcare K. Murugeswari, B. Sundaravadivazhagan, S Poonkuntran, Thendral Puyalnithi, 2024-05-15 Deep learning can provide more accurate results compared to machine learning It uses layered algorithmic architecture to analyze data It produces more accurate results since learning from previous results enhances its ability The multi layered nature of deep learning systems has the potential to classify subtle abnormalities in medical images clustering patients with similar characteristics into risk based cohorts or highlighting relationships between symptoms and outcomes within vast quantities of unstructured data Exploring this potential Deep Learning for Smart Healthcare Trends Challenges and Applications is a reference work for researchers and academicians who are seeking new ways to apply deep learning algorithms in healthcare including medical imaging and healthcare data analytics It covers how deep learning can analyze a patient s medical history efficiently to aid in recommending drugs and dosages It discusses how deep learning can be applied to CT scans MRI scans and ECGs to diagnose diseases Other deep learning applications explored are extending the scope of patient record management pain assessment new drug design and managing the clinical trial process Bringing together a wide range of research domains this book can help to develop breakthrough applications for improving healthcare management and patient outcomes

Virtual Lifelong Learning: Educating Society with Modern Communication Technologies Neha, Pooja Gupta, Ihtiram Raza Khan, Gülsün Kurubacak, 2024-06-05 This reference addresses the transformative landscape of education through the lens of modern technologies It imparts a comprehensive overview of the challenges opportunities and future visions in education by covering the dynamic intersection of e learning virtual teaching and cutting edge technologies The book includes an extensive spectrum of 14 topics commencing with a basic study on E learning and teaching in the new millennium Next the work explores substantial topics such as the challenges and opportunities of virtual learning the impact of the National Education Policy 2020 the role of Virtual Learning in bridging gender gaps and the benefits and challenges for differently abled students Contributors also discuss new developments in education including the integration of ICT in mechanical engineering the use of AR and VR to virtualize academic activities and blockchain technology in education The last two chapters explore the applications challenges and possibilities of machine learning and data analytics in the context of m Health and the impact analysis of online education development Key features of the reference are a simplified exploration of the cutting edge technologies that are reshaping the educational environment a forward looking view of the future of education and practical insights into the drawbacks and advantages of virtual learning Readers will get a broad perspective

of information on virtual education technology with references and case studies that provide a holistic view of modern educational structures This book is tailored for educators researchers and anyone working in the field of education and technology who are looking for a thorough understanding of the transformative prospects of virtual lifelong learning and its implications for building an inclusive society and learning environment

Blockchain for Smart Systems Latesh Malik, Sandhya Arora, Urmila Shrawankar, Vivek Deshpande, 2022-07-06 Blockchain technology has been penetrating every aspect of Information and Communications Technology ICT and its use has been growing rapidly in recent years The interest and development of this technology has primarily been driven by the enormous value growth of cryptocurrencies and large investments of venture capital in blockchain start ups Blockchain for Smart Systems Computing Technologies and Applications is intended to clarify and define in simple terms the technology behind blockchain It provides a deep dive into the core fundamentals of blockchain hashing algorithm behind each block distributed technology smart contracts and private vs public blockchain Features Discusses fundamental theories of practical and sophisticated applications of blockchain technology Includes case studies Discusses the concepts with illustrations appropriate figures tables and simple language This book is primarily aimed at undergraduates graduates research scholars academicians and industry and technology enthusiasts working in various aspects of blockchain technology

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mass C_6H_6 6 12 6 1 g mol 1 78 g mol 1 hence C_6H_6 s number of moles $30.78 \text{ mol} / 384.6 \text{ g mol}^{-1}$ molar mass of carbon tet CCl_4 12 4 355 154 g mol 1

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