

Titre: Artificial intelligence and quantum computing for advanced wireless networks.

Auteur (s): S-G. Glisic, B. Lorenzo

Editeur: John Wesley, Croyden

Année: 2022

Description: 850 p.: couv. ill. en coul. ; 26 Cm

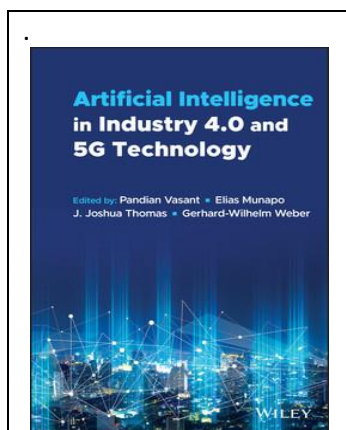
ISBN: 978-1-119-79029-7

Résumé: Increasingly dense and flexible wireless networks require the use of artificial intelligence (AI) for planning network deployment, optimization, and dynamic control. Machine learning algorithms are

now often used to predict traffic and network state in order to reserve resources for smooth communication with high reliability and low latency. In Artificial Intelligence and Quantum Computing for Advanced Wireless Networks, the authors deliver a practical and timely review of AI-based learning algorithms, with several case studies in both Python and R. The book discusses the game-theory-based learning algorithms used in decision making, along with various specific applications in wireless networks, like channel, network state, and traffic prediction. Additional chapters include Fundamentals of ML, Artificial Neural Networks (NN), Explainable and Graph NN, Learning Equilibria and Games, AI Algorithms in Networks, Fundamentals of Quantum Communications, Quantum Channel, Information Theory and Error Correction, Quantum Optimization Theory, and Quantum Internet, to name a few.

Cote: 006.3 GLI

Localisation: Niveau 2



Titre: Artificial intelligence in industry 4.0 and 5G technology.

Auteur (s): P. Vasant et al

Editeur: John Wesley, Hoboken

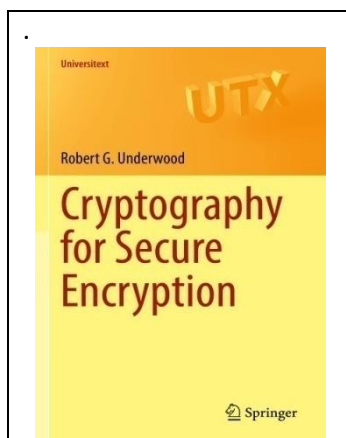
Année: 2022

Description: 321 p.: couv. ill. en coul. ; 25 Cm

ISBN: 978-1-119-79876-7

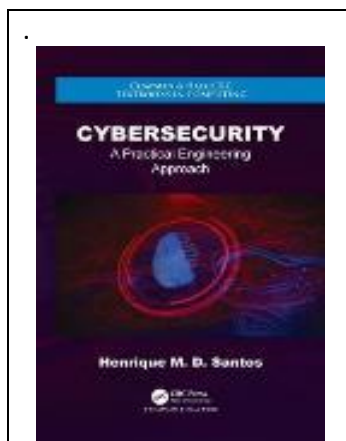
Résumé: As the pace of Artificial Intelligence (AI) technology innovation continues to accelerate, identifying the appropriate AI capabilities to embed in key decision processes has never been more critical to establishing competitive advantage. New and emerging analytics tools

and technologies can be configured to optimize business value, change how an organization gains insights, and significantly improve the decision-making process across the enterprise. Artificial Intelligence in Industry 4.0 and 5G Technology helps readers solve real-world technological engineering optimization problems using evolutionary and swarm intelligence, mathematical programming, multi-objective optimization, and other cutting-edge intelligent optimization methods. Contributions from leading experts in the field present original research on both the theoretical and practical aspects of implementing new AI techniques in a variety of sectors, including Big Data analytics, smart manufacturing, renewable energy, smart cities, robotics, and the Internet of Things (IoT).

Cote: 006.3 ART**Localisation:** Niveau 2**Titre:** Cryptography for secure encryption.**Auteur (s):** R-G. Underwood**Editeur:** Springer, Montgomery**Année:** 2022**Description:** 319 p.: couv. ill. en coul. ; 24 Cm**ISBN:** 978-3-030-97904-1

Résumé: This text is intended for a one-semester course in cryptography at the advanced undergraduate/Master's degree level. It is suitable for students from various STEM backgrounds, including engineering, mathematics, and computer science, and may also be attractive for

researchers and professionals who want to learn the basics of cryptography. Advanced knowledge of computer science or mathematics (other than elementary programming skills) is not assumed. The book includes more material than can be covered in a single semester. The Preface provides a suggested outline for a single semester course, though instructors are encouraged to select their own topics to reflect their specific requirements and interests. Each chapter contains a set of carefully written exercises which prompts review of the material in the chapter and expands on the concepts. Throughout the book, problems are stated mathematically, then algorithms are devised to solve the problems. Students are tasked to write computer programs (in C++ or GAP) to implement the algorithms. The use of programming skills to solve practical problems adds extra value to the use of this text.

Cote: 378.51 UND**Localisation:** Niveau 1 et 2**Titre:** Cybersecurity: a practical engineering approach.**Auteur (s):** H-M-D. Santos**Editeur:** CRC Press, Boca Raton**Année:** 2022**Description:** 314 p.: couv. ill. en coul. ; 26 Cm**ISBN:** 978-0-367-25242-7

Résumé: Cybersecurity: A Practical Engineering Approach introduces the implementation of a secure cyber architecture, beginning with the identification of security risks. It then builds solutions to mitigate risks by considering the technological justification of the solutions as well as

their efficiency. The process follows an engineering process model. Each module builds on a subset of the risks, discussing the knowledge necessary to approach a solution, followed by the security control architecture design and the implementation. The modular approach allows students to focus on more manageable problems, making the learning process simpler and more attractive.

Cote: 005.8 SAN**Localisation:** Niveau 2



Titre: Data communications and network technologies.

Auteur (s): Collectif

Editeur: Springer, Beijing

Année: 2023

Description: 558 p.: couv. en coul. ; 24 Cm

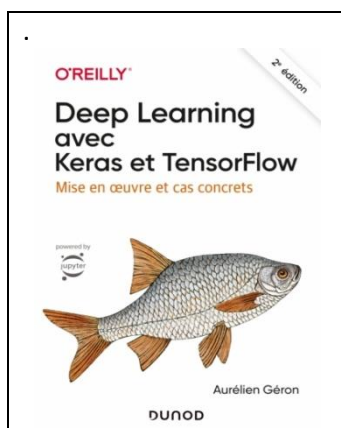
ISBN: 978-981-19-3028-7

Résumé: This open access book is written according to the examination outline for Huawei HCIA-Routing Switching V2.5 certification, aiming to help readers master the basics of network communications and use Huawei network devices to set up enterprise LANs and WANs, wired

networks, and wireless networks, ensure network security for enterprises, and grasp cutting-edge computer network technologies. The content of this book includes: network communication fundamentals, TCP/IP protocol, Huawei VRP operating system, IP addresses and subnetting, static and dynamic routing, Ethernet networking technology, ACL and AAA, network address translation, DHCP server, WLAN, IPv6, WAN PPP and PPPoE protocol, typical networking architecture and design cases of campus networks, SNMP protocol used by network management, operation and maintenance, network time protocol NTP, SND and NFV, programming, and automation. As the world's leading provider of ICT (information and communication technology) infrastructure and smart terminals, Huawei's products range from digital data communication, cyber security, wireless technology, data storage, cloud-computing, and smart computing to artificial intelligence.

Cote: 681.33 DAT

Localisation: Niveau 2



Titre: Deep learning avec keras et tensorflow.

Auteur (s): A. Géron

Editeur: Dunod, Paris

Edition: 2°éd.

Année: 2022

Description: 553 p.: ill. couv. ill. en coul. ; 25 Cm

ISBN: 978-2-10-079066-1

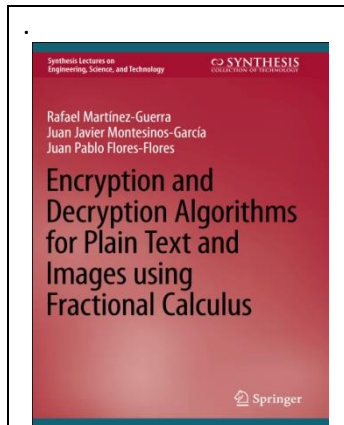
Résumé: L'objectif de cet ouvrage est de vous expliquer les concepts fondamentaux du Deep Learning et de vous montrer, grâce à de nombreux exemples de code accessibles en ligne, comment les mettre

en pratique. Cette deuxième édition très remaniée tient notamment compte de la nouvelle version de TensorFlow 2, outil open source très efficace pour entraîner des réseaux de neurones artificiels. A- Construire et former de nombreuses architectures de réseaux de neurones pour classification et régression à l'aide de TensorFlow 2. B- Découvrir la détection d'objets, la segmentation sémantique, les mécanismes d'attention, les modèles de langage, les réseaux antagonistes génératifs, etc. C- Explorer l'API Keras, l'API officielle de haut niveau pour TensorFlow 2. D- Produire des modèles TensorFlow à l'aide de TF Data, de TF Transform, de l'API de stratégies de distribution et de TF Serving. E- Déployer sur la plateforme Google Cloud AI ou sur des appareils mobiles. F- Créer des agents d'apprentissage autonomes avec le Reinforcement Learning, y compris en utilisant la bibliothèque TF-

Agents.

Cote: 006.3 GER

Localisation: Niveau 1 et 2



Titre: Encryption and decryption algorithms for plain text and images using fractional calculus.

Auteur (s): R. Martineez-Guerra, J-J. Montesinos-Garcia and J-P. Flores-Flores

Editeur: Springer, Cham

Année: 2023

Description: 240 p.: couv. en coul. ; 25 Cm

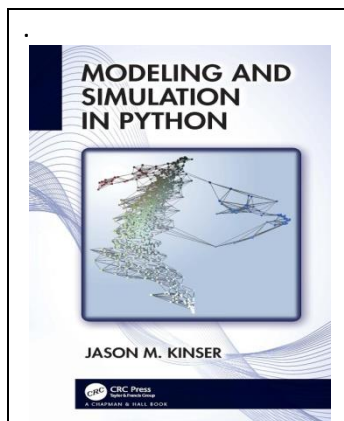
ISBN: 978-3-031-20697-9

Résumé: This book offers an alternative for encrypting and decrypting messages using objects called integer and fractional-order estimators or

observers, by means of security codes. The authors first establish the class of observers capable of carrying out this work. Then, the type of observers to treat either the integer or fractional order type and their main characteristics is mentioned. The book also presents an essential property of some systems such as Liouville, which is vital for the encryption and decryption of messages in integer and fractional order nonlinear systems by using the synchronization property of chaotic systems. Finally, it addresses some logistic maps such as Mandelbrot sets including Julia and fractal sets, taking advantage of their characteristics to encrypt or recover messages.

Cote: 005.82 FLO

Localisation: Niveau 2



Titre: Modelling and simulation in python.

Auteur (s): J-M. Kinser

Editeur: CRC Press, Boca Raton

Année: 2022

Description: 314 p.: couv. Ill. en coul. ; 26 Cm

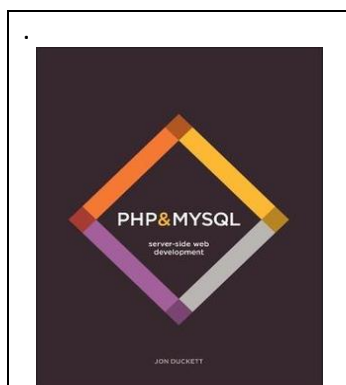
ISBN: 978-1-032-11648-8

Résumé: The use of Python as a powerful computational tool is expanding with great strides. Python is a language which is easy to use, and the libraries of tools provides it with efficient versatility. As the tools continue to expand, users can create insightful models and simulations.

While the tools offer an easy method to create a pipeline, such constructions are not guaranteed to provide correct results. A lot of things can go wrong when building a simulation - deviously so. Users need to understand more than just how to build a process pipeline. Modeling and Simulation in Python introduces fundamental computational modeling techniques that are used in a variety of science and engineering disciplines. It emphasizes algorithmic thinking skills using different computational environments, and includes a number of interesting examples, including Shakespeare, movie databases, virus spread, and Chess.

Cote: 006.7 KIN

Localisation: Niveau 2



Titre: PHP & MySQL: server-side web development.

Auteur (s): J. Duckett

Editeur: Wiley, Hoboken

Année: 2022

Description: 668 p.: couv. en coul. ; 24 Cm

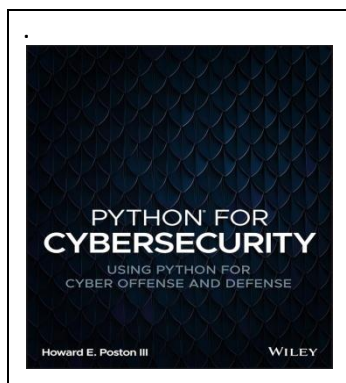
ISBN: 978-1-119-14922-4

Résumé: Learn PHP, the programming language used to build sites like Facebook, Wikipedia and WordPress, then discover how these sites store information in a database (MySQL) and use the database to create the web pages. This full-color book is packed with inspiring code

examples, infographics and photography that not only teach you the PHP language and how to work with databases, but also show you how to build new applications from scratch. It demonstrates practical techniques that you will recognize from popular sites where visitors can: A- Register as a member and log in. B- Create articles, posts and profiles that are saved in a database. C- Upload their own images and files. D- Automatically receive email notifications. E- Like and comment on posts. To show you how to apply the skills you learn, you will build a complete content management system, enhanced with features that are commonly seen on social networks. Written by best-selling HTML & CSS and JavaScript & jQuery author Jon Duckett, this book uses a unique visual approach, with step-by-step instructions, practical code examples and pro tips that will teach you how to build modern database-driven websites using PHP.

Cote: 005.133 DUC

Localisation: Niveau 1 et 2



Titre: Python for cybersecurity: using python for cyber offense and defense.

Auteur (s): H-E. Poston III

Editeur: Wiley, Hoboken

Année: 2022

Description: 220 p.: couv. Ill. en coul. ; 24 Cm

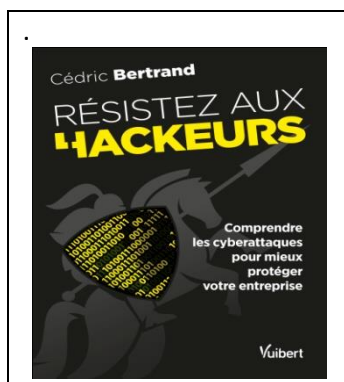
ISBN: 978-1-119-85064-9

Résumé: Python For Cybersecurity: Using Python for Cyber Offense and Defense delivers an intuitive and hands-on explanation of using Python for cybersecurity. It relies on the MITRE ATT&CK framework to structure

its exploration of cyberattack techniques, attack defenses, and the key cybersecurity challenges facing network administrators and other stakeholders today. Offering downloadable sample code, the book is written to help you discover how to use Python in a wide variety of cybersecurity situations, including: A- Reconnaissance, resource development, initial access and execution. B- Persistence, privilege escalation, defense, evasion and credential access. C- Discovery, lateral movement, collection, command and control. D- Exfiltration and compact. Each chapter includes discussions of several techniques and sub-techniques that could be used to achieve an attacker's objectives in any of these use cases. The ideal resource for anyone with a professional or personal interest in cybersecurity, Python For Cybersecurity offers in-depth information about a wide variety of attacks and effective, Python-based defenses against them.

Cote: 005.8 POS

Localisation: Niveau 1 et 2



Titre: Résistez aux hackers: comprendre les cyberattaques pour mieux protéger votre entreprise.

Auteur (s): C. Bertrand

Editeur: Vuibert, Paris

Année: 2021

Description: 220 p.: couv. ill. en coul. ; 22 Cm

ISBN: 978-2-311-62480-9

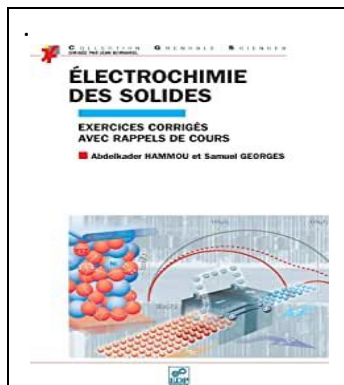
Résumé: Survivez aux hackers en apprenant à vous en protéger!

Ce guide très opérationnel aidera toutes les structures à se sécuriser (il s'appuie sur de nombreux retours d'expériences, audits, incidents de sécurité). Trop d'entreprises se font régulièrement attaquer et quelques conseils de base permettraient d'en atténuer les impacts. Un ouvrage pour aider les entreprises et les entrepreneurs à différents niveaux:

- Tous les utilisateurs à mieux se protéger (comment gérer ses mots de passe, protéger sa messagerie, protéger son ordinateur, faire des sauvegardes, etc.) - Les petites et moyennes entreprises qui n'ont pas de spécialistes en sécurité informatique à avoir une hygiène de base (sécuriser son réseau interne, moins se faire attaquer, etc.) <https://www.silicon.fr/avis-expert/les-cyberattaques-contre-les-tpe-pme-explosent-un-danger-pour-notre-economie#> Ce livre s'adresse à un large public professionnel et propose des outils faciles d'accès et abordables financièrement (contrairement à ceux proposés par la concurrence).

Cote: 005.8 BER

Localisation: Niveau 1 et 2



Titre: Électrochimie des solides: exercices corrigés avec rappels de cours.

Auteur (s): A. Hammou et S. Georges

Editeur: EDPSciences, Les Ulis

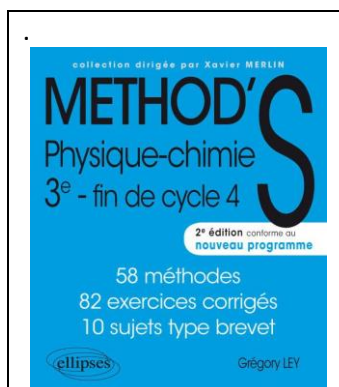
Année: 2011

Description: 284 p.: couv. ill. en coul. ; 25 Cm

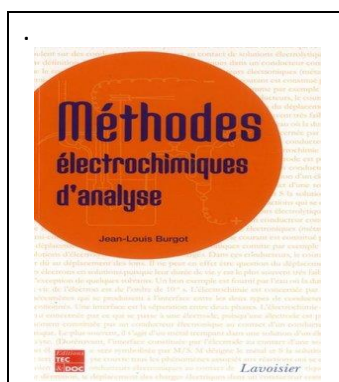
ISBN: 978-2-7598-0658-4

Résumé: L'Électrochimie des solides dont l'essor a débuté dans les années 1950 poursuit son développement avec, récemment, les piles à combustible. Cette discipline repose fortement sur la synthèse et la caractérisation de matériaux utilisés dans des dispositifs

électrochimiques, les électrolytes et les électrodes. Pour les premiers, les caractéristiques structurales et les propriétés de transport ionique sont déterminantes ; pour les seconds, la conductivité électrique, la cinétique des réactions d'électrodes et la stabilité de l'interface électrode/électrolyte sont les thèmes critiques. Ce livre d'exercices complète le livre de référence Electrochimie des solides (C Déportes et al) paru dans la même collection. Il comprend des rappels de cours, des exercices résolus avec une centaine d'illustrations, un glossaire et une bibliographie qui facilitent l'appropriation des connaissances. Le lecteur pourra ainsi accroître son expertise sur la notation des défauts dans les cristaux, l'évolution de la stœchiométrie, les mesures électrochimiques et leurs applications. L'ouvrage sera utile aux étudiants de master (chimie, physique et chimie-physique), aux enseignants, universitaires, chercheurs et ingénieurs concernés par les solides inorganiques.

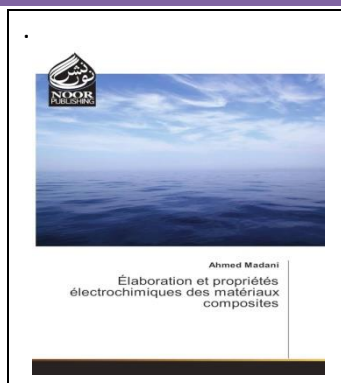
Cote: 541.37 HAM**Localisation:** Niveau 1 et 2**Titre:** Method's physique-chimie: 58 méthodes, 82 exercices corrigés et 10 sujets type brevet.**Auteur (s):** G. Ley**Editeur:** Ellipses, Paris**Edition:** 2^eéd.**Année:** 2017**Description:** 312 p.: ill. couv. en coul. ; 24 Cm**ISBN:** 978-2-340-01775-7**Résumé:** Nouvelle édition mise en conformité avec la réforme du collège. Pour préparer efficacement sa dernière année de collège

(Troisième) avant l'entrée au lycée. Toutes les méthodes essentielles sur un sujet donné. Les astuces à connaître et les erreurs à éviter. Des conseils et 10 sujets type pour préparer le brevet. Les exercices incontournables et les corrigés.

Cote: 530.07 LEY**Localisation:** Niveau 1 et 2**Titre:** Méthodes électrochimiques d'analyse.**Auteur (s):** J-L. Burgot**Editeur:** Lavoisier, Paris**Année:** 2012**Description:** 537 p.: ill. couv. en coul. ; 24 Cm**ISBN:** 978-2-7430-1444-5**Résumé:** Clair et didactique, ce manuel de référence aide à comprendre et assimiler les principes fondamentaux des différentes méthodes électrochimiques les plus utilisées dans le domaine de l'analyse chimique. Reposant sur une démarche progressive et enrichi de

nombreux exemples d'application, il se compose de trois parties proposant : un rappel des concepts généraux de l'électrochimie : cellules électrochimiques, interfaces, courbes intensité-potentiel, transferts de charge, électrolyse, une étude détaillée des méthodes électrochimiques d'analyse : polarographie, voltamètre, ampèremètre, conductimètre, potentiomètre, coulométrie, biocapteurs et détecteurs électrochimiques, des développements théoriques complémentaires établissant les relations mathématiques qui constituent le fondement des applications des méthodes précédentes. Méthodes électrochimiques d'analyse s'adresse à tous les praticiens de l'analyse chimique : pharmaciens hospitaliers, techniciens et ingénieurs dans le domaine pharmaceutique, praticiens et techniciens de laboratoire d'analyses médicales. Par son parti pris pédagogique, cet ouvrage est également destiné aux étudiants de chimie de tous les niveaux universitaires ainsi qu'à ceux préparant les grandes écoles d'ingénieurs et scientifiques d'horizons divers.

Cote: 543.4 BUR**Localisation:** Niveau 2



Titre: Elaboration et propriétés électrochimiques des matériaux composites.

Auteur (s): A. Madani

Editeur: Noor Publishing, Saarbrucken

Année: 2016

Description: 114 p.: ill. couv. ill. en coul. ; 22 Cm

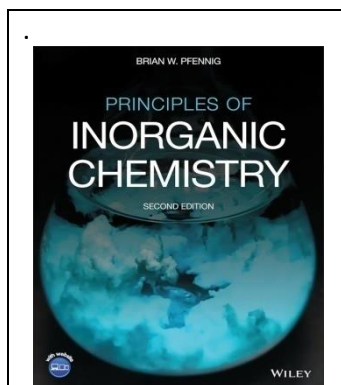
ISBN: 978-3-330-80289-6

Résumé: Ce travail consiste en l'étude électrochimique et spectroscopique de matériaux composites à base de polymères organiques conducteurs et photoconducteurs (CdS). Ces matériaux ont

été synthétisés par voie chimique et électrochimique. La synthèse chimique de polystyrène recouvert de polypyrrole carboxylique sous forme cœur-écorce (PS@PPyCOOH) a été préparée par la copolymérisation in-situ de Py et de PyCOOH en présence de PS. L'électrosynthèse des matériaux composites a été effectuée et analysée dans deux milieux aqueux et organique par la voltampérométrie cyclique. Les matériaux composites résultants ont été caractérisés par différentes méthodes spectrométriques : MEB, XPS, UV-Vis, MET, FTIR et ATG. La voltampérométrie cyclique (CV) et la spectroscopie d'impédance électrochimique (EIS) ont été utilisées pour l'étude du comportement électrochimique des matériaux composites. La présence des nanoparticules de CdS dans le film de polymère améliore les propriétés optiques de polymère. Ces films présentent des propriétés photoélectrochimiques intéressantes dans les applications des cellules photovoltaïques.

Cote: 620.118 MAD

Localisation: Niveau 1 et 2



Titre: Principles of inorganic chemistry.

Auteur (s): B-W. Pfennig

Editeur: Wiley, Hoboken

Edition: 2^eéd.

Année: 2022

Description: 804 p.: ill. couv. Ill. en coul. ; 28 Cm

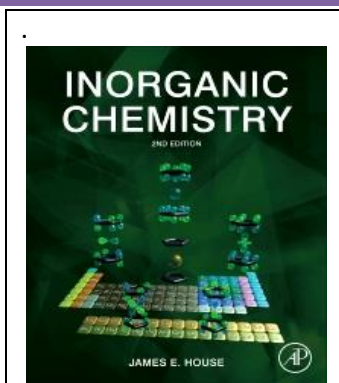
ISBN: 978-1-119-65032-4

Résumé: In the newly revised Second Edition of Principles of Inorganic Chemistry, experienced researcher and chemist Dr. Brian W. Pfennig delivers an accessible and engaging exploration of inorganic chemistry

perfect for sophomore-level students. This redesigned book retains all of the rigor of the first edition but reorganizes it to assist readers with learning and retention. In-depth boxed sections include original mathematical derivations for more advanced students, while topics like atomic and molecular term symbols, symmetry coordinates in vibrational spectroscopy, polyatomic MO theory, band theory, and Tanabe-Sugano diagrams are all covered. Readers will find many worked examples throughout the text, as well as numerous unanswered problems at varying levels of difficulty. Informative, colorful illustrations also help to highlight and explain the concepts discussed within. The new edition includes an increased emphasis on the comparison of the strengths and weaknesses of different chemical models, the interconnectedness of valence bond theory and molecular orbital theory, as well as a more thorough discussion of the atoms in molecules topological model.

Cote: 546.076 PFE

Localisation: Niveau 2



Titre: Inorganic chemistry.

Auteur (s): J-E. House

Editeur: Elsevier, Amsterdam

Edition: 2^oéd.

Année: 2013

Description: 832 p.: ill. couv. Ill. en coul. ; 28 Cm

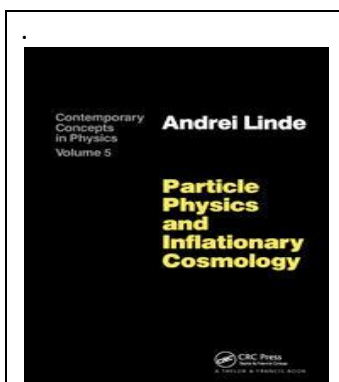
ISBN: 978-0-12-385110-9

Résumé: Inorganic Chemistry, Second Edition, provides essential information for students of inorganic chemistry or for chemists pursuing self-study. The presentation of topics is made with an effort

to be clear and concise so that the book is portable and user friendly. The text emphasizes fundamental principles—including molecular structure, acid-base chemistry, coordination chemistry, ligand field theory, and solid state chemistry. It is organized into five major themes (structure, condensed phases, solution chemistry, main group and coordination compounds) with several chapters in each. There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures, to behavior of solids, etc. The textbook contains a balance of topics in theoretical and descriptive chemistry. For example, the hard-soft interaction principle is used to explain hydrogen bond strengths, strengths of acids and bases, stability of coordination compounds, etc. Discussion of elements begins with survey chapters focused on the main groups, while later chapters cover the elements in greater detail. Each chapter opens with narrative introductions and includes figures, tables, and end-of-chapter problem sets. This new edition features new and improved illustrations, including symmetry and 3D molecular orbital representations; expanded coverage of spectroscopy, instrumental techniques, organometallic and bio-inorganic chemistry; and more in-text worked-out examples to encourage active learning and to prepare students for their exams. This text is ideal for advanced undergraduate and graduate-level students enrolled in the Inorganic Chemistry course. This core course serves Chemistry and other science majors. The book may also be suitable for biochemistry, medicinal chemistry, and other professionals who wish to learn more about this subject area.

Cote: 546.076 HOU

Localisation: Niveau 2



Titre: Particle physics and inflationary cosmology.

Auteur (s): A. Linde

Editeur: Taylor & Francis, Eastbourne

Année: 2003

Description: 362 p.: ill. couv. en coul. ; 23 Cm

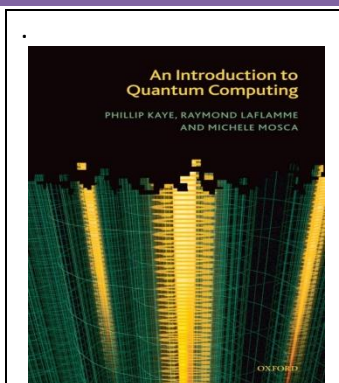
ISBN: 978-3-7186-0490-6

Résumé: A monograph on inflationary cosmology and cosmological phase transitions, investigating modern cosmology's relationship to elementary particle physics. This work also includes a non-technical discussion of inflationary cosmology for those unfamiliar with the

theory.

Cote: 523.1 LIN

Localisation: Niveau 2



Titre: An introduction to quantum computing.

Auteur (s): P. Kaye, R. Laflamme and M. Mosca

Editeur: Oxford University, Oxford

Année: 2010

Description: 274 p.: ill. couv. Ill. en coul. ; 23 Cm

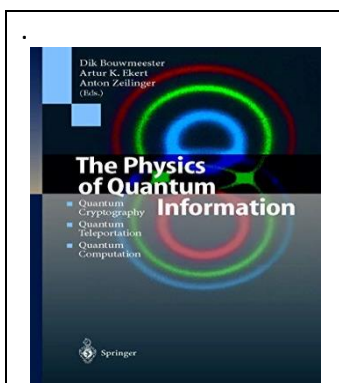
ISBN: 978-0-19-857049-3

Résumé: This concise, accessible text provides a thorough introduction to quantum computing - an exciting emergent field at the interface of the computer, engineering, mathematical and physical sciences. Aimed at advanced undergraduate and beginning graduate students in these

disciplines, the text is technically detailed and is clearly illustrated throughout with diagrams and exercises. Some prior knowledge of linear algebra is assumed, including vector spaces and inner products. However, prior familiarity with topics such as quantum mechanics and computational complexity is not required.

Cote: 006.7 KAY

Localisation: Niveau 2



Titre: The physics of quantum information : quantum cryptography, teleportation and computation.

Auteur (s): D. Bouwmeester, A. Ekert and A. Zeilinger

Editeur: Springer, Berlin

Année: 2001

Description: 314 p.: ill. couv. Ill. en coul. ; 24 Cm

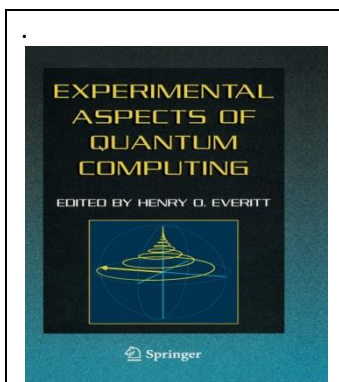
ISBN: 978-3-540-66778-0

Résumé: Leading experts from The Physics of Quantum Information network, a European Commission initiative, bring together the most recent results from the emerging area of quantum technology. Written

in a consistent style, the book introduces quantum cryptography, quantum teleportation, and quantum computation, considering both theory and the latest experiments. Thus scientists working in the field and advanced students will find it to be a rich source of information on this exciting new area.

Cote: 539.01 ZEI

Localisation: Niveau 2



Titre: Experimental aspects of quantum computing.

Auteur (s): H-O. Everitt

Editeur: Springer, New York

Année: 2005

Description: 308 p.: ill. couv. Ill. en coul. ; 24 Cm

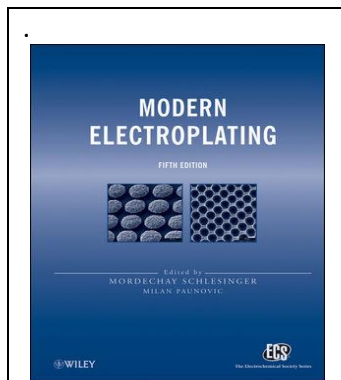
ISBN: 978-0-387-23045-0

Résumé: Practical quantum computing still seems more than a decade away, and researchers have not even identified what the best physical implementation of a quantum bit will be. There is a real need in the scientific literature for a dialogue on the topic of lessons learned and

looming roadblocks. This reprint from Quantum Information Processing is dedicated to the experimental aspects of quantum computing and includes articles that 1) highlight the lessons learned over the last 10 years, and 2) outline the challenges over the next 10 years. The special issue includes a series of invited articles that discuss the most promising physical implementations of quantum computing. The invited articles were to draw grand conclusions about the past and speculate about the future, not just report results from the present.

Cote: 530.12 EVE

Localisation: Niveau 2



Titre: Modern electroplating.

Auteur (s): M. Schlesinger and M. Paunovic

Editeur: Wiley, New Jersey

Edition: 5^eéd.

Année: 2010

Description: 729 p.: ill. couv. Ill. en coul. ; 29 Cm

ISBN: 978-0-470-16778-6

Résumé: The definitive resource for electroplating, now completely up to date. With advances in information-age technologies, the field of electroplating has seen dramatic growth in the decade since the

previous edition of Modern Electroplating was published. This expanded new edition addresses these developments, providing a comprehensive, one-stop reference to the latest methods and applications of electroplating of metals, alloys, semiconductors, and conductive polymers. With special emphasis on electroplating and electrochemical plating in nanotechnologies, data storage, and medical applications, the Fifth Edition boasts vast amounts of new and revised material, unmatched in breadth and depth by any other book on the subject. It includes. Easily accessible, self-contained contributions by over thirty experts. Five completely new chapters and hundreds of additional pages. A cutting-edge look at applications in nanoelectronics. Coverage of the formation of nanoclusters and quantum dots using scanning tunneling microscopy (STM). A must-have for anyone in electroplating, including technicians, platers, plating researchers, and metal finishers, Modern Electroplating, Fifth Edition is also an excellent reference for electrical engineers and researchers in the automotive, data storage, and medical industries.

Cote: 671.7 SCH

Localisation: Niveau 2