

Digital Forensics Midterm Name Nmt Computer Science And

Mobile phone forensics is the science of recovering digital evidence from a mobile phone under forensically sound conditions using accepted methods. Mobile phones, especially those with advanced capabilities, are a relatively recent phenomenon, not usually covered in classical computer forensics. This guide attempts to bridge that gap by providing an in-depth look into mobile phones and explaining the technologies involved and their relationship to forensic procedures. It covers phones with features beyond simple voice communication and text messaging and their technical and operating characteristics. This guide also discusses procedures for the preservation, acquisition, examination, analysis, and reporting of digital information present on cell phones, as well as available forensic software tools that support those activities. ...gives a thorough understanding of what myofascial pain actually is, and provides a unique and effective approach to the diagnosis and treatment of this syndrome for the lower body muscles.

This collection of 24 essays explores what happens when proponents of writing across the curriculum (WAC) use the latest computer-mediated tools and techniques--including e-mail, asynchronous learning networks, MOOs, and the World Wide Web--to expand and enrich their teaching practices, especially the teaching of writing. Essays and their authors are: (1) "Using Computers to Expand the Role of Writing Centers" (Muriel Harris); (2) "Writing across the Curriculum Encounters Asynchronous Learning Networks" (Gail E. Hawisher and Michael A. Pemberton); (3) "Building a Writing-Intensive Multimedia Curriculum" (Mary E. Hocks and Daniele Bascelli); (4) "Communication across the Curriculum and Institutional Culture" (Mike Palmquist; Kate Kiefer; Donald E. Zimmerman); (5) "Creating a Community of Teachers and Tutors" (Joe Essid and Dona J. Hickey); (6) "From Case to Virtual Case: A Journey in Experiential Learning" (Peter M. Saunders); (7) "Composing Human-Computer Interfaces across the Curriculum in Engineering Schools" (Stuart A. Selber and Bill Karis); (8) "InterQuest: Designing a Communication-Intensive Web-Based Course" (Scott A. Chadwick and Jon Dorbolo); (9) "Teacher Training: A Blueprint for Action Using the World Wide Web" (Todd Taylor); (10) "Accommodation and Resistance on (the Color) Line: Black Writers Meet White Artists on the Internet" (Teresa M. Redd); (11) "International E-mail Debate" (Linda K. Shamon); (12) "E-mail in an Interdisciplinary Context" (Dennis A. Lynch); (13) "Creativity, Collaboration, and Computers" (Margaret Portillo and Gail Summerskill Cummins); (14) "Collaboratory: MOOs, Museums, and Mentors" (Margit Misangyi Watts and Michael Bertsch); (15) "Weaving Guilford's Web" (Michael B. Strickland and Robert M. Whitnell); (16) "Pig Tales: Literature inside the Pen of Electronic Writing" (Katherine M. Fischer); (17) "E-Journals: Writing to Learn in the Literature Classroom" (Paula Gillespie); (18) "E-mailing Biology: Facing the Biochallenge" (Deborah M. Langsam and Kathleen Blake Yancey); (19) "Computer-Supported Collaboration in an Accounting Class" (Carol F. Venable and Gretchen N. Vik); (20) "Electronic Tools to Redesign a Marketing Course" (Randall S. Hansen); (21) "Network Discussions for Teaching Western Civilization" (Maryanne Felter and Daniel F. Schultz); (22) "Math Learning through Electronic Journaling" (Robert Wolfe); (23) "Electronic Communities in Philosophy Classrooms" (Gary L. Hardcastle and Valerie Gray Hardcastle); and (24) "Electronic Conferencing in an Interdisciplinary Humanities Course" (Mary Ann Krajnik Crawford; Kathleen Geissler; M. Rini Hughes; Jeffrey Miller). A glossary and an index are included. (NKA)

A guide to job success covers such topics as making a good impression, getting along with co-workers, problem solving techniques, ethical problems, and career advancement.

Mineral Resources; 19

Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition

Validation Approaches and Global Requirements, Second Edition

Acronyms Abbreviations & Terms - A Capability Assurance Job Aid

Translation, Brains and the Computer

Deep Learning on Graphs

Evidence-based Clinical Practice Recommendations

For anyone who owns a boat, this is the handbook you need to own. Included are all of the official government rules and regulations that must be followed by anyone out on the water. This book will prepare you for head-on situations, avoiding collisions, using, distress signals, and will inform you of all the up-to-date water regulations. Whether you're in a jam or just relaxing at sea, Navigation Rules will teach and prepare you for anything and everything you may encounter while on your boat.

A comprehensive text on foundations and techniques of graph neural networks with applications in NLP, data mining, vision and healthcare. This book presents a broad yet focused treatment of central topics in the field of clinical neurophysiology. The volume was inspired by the clinical neurophysiology lecture series at Beth Israel-Deaconess Medical Center and Rhode Island Hospital. Much like the lecture series, this book is designed to acquaint trainees with the essential elements of clinical neurophysiology. Each chapter is written by leading and respected clinical neurophysiologists.

A new edition of a book is warranted when the book is successful and there are many new developments in the related discipline. Both have occurred for this book during the past 7 years since its second edition. The growth and development in nuclear pharmacy and radiopharmaceutical chemistry along with the continued success of the book have convinced us to update the book; hence this third edition. This book is a ramification of my nuclear pharmacy courses offered to pharmacy students specializing in nuclear pharmacy, nuclear medicine residents, and nuclear medicine technology students. The book is written in an integrated form from the basic concept of atomic structure to the practical clinical uses of radiopharmaceuticals. It serves both as a textbook on nuclear pharmacy for pharmacy students and nuclear

medicine technologists, and as a useful reference book for many professionals related to nuclear medicine, such as nuclear medicine physicians and radiologists. The book contains 12 chapters. Each chapter is written as comprehensively as possible based on my personal experience and understanding. At the end of each chapter, a section of pertinent questions and problems and some suggested reading materials are included. I have made justifiably many additions and deletions as well as some reorganization in this edition. Chapter 3 is entirely dedicated to instruments for radiation detection and measurement, including brief description of gas detectors, gamma-detecting instruments, and tomographic scanners.

Myasthenia Gravis

Machine Translation Summit

The Nuremberg Military Tribunals and the Origins of International Criminal Law

The Telecommunications Handbook

Microbial Limit and Bioburden Tests

Fundamentals of Nuclear Pharmacy

Myofascial Pain and Dysfunction

Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation, bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field. It is also designed as an accompanying text to Digital Evidence and Computer Crime. This unique collection details how to conduct digital investigations in both criminal and civil contexts, and how to locate and utilize digital evidence on computers, networks, and embedded systems. Specifically, the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice: Forensic Analysis, Electronic Discovery, and Intrusion Investigation. The Technology section is extended and updated to reflect the state of the art in each area of specialization. The main areas of focus in the Technology section are forensic analysis of Windows, Unix, Macintosh, and embedded systems (including cellular telephones and other mobile devices), and investigations involving networks (including enterprise environments and mobile telecommunications technology). This handbook is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind.

****Provides methodologies proven in practice for conducting digital investigations of all kinds***

****Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations***

CAN (Controller Area Network) is a serial communication protocol that was originally developed for the automobile industry. CAN is far superior to conventional serial technologies such as RS232 in regards to functionality and reliability and yet CAN implementations are more cost effective. CANopen, a higher layer protocol based on CAN, provides the means to apply the ingenious CAN features to a variety of industrial-strength applications. Many users, for example in the field of medical engineering, opted for CANopen because they have to meet particularly stringent safety requirements. Similar requirements had to be considered by manufacturers of other equipment with very high safety or reliability requirements (e.g. robots, lifts and transportation systems). Providing a detailed look at both CAN and CANopen, this book examines those technologies in the context of embedded networks. There is an overview of general embedded networking and an introduction to the primary functionality provided by CANopen. Everything one needs to know to configure and operate a CANopen network using off-the-shelf components is described, along with details for those designers who want to build their own CANopen nodes. The wide variety of applications for CAN and CANopen is discussed, and instructions in developing embedded networks based on the protocol are included. In addition, references and examples using MicroCANopen, PCANopen Magic, and Vector's high-end development tools are provided. Now in its 2nd edition, Medical Terminology Express adapts Barbara Gylys's proven word-building techniques for the short-course. Organized by body system, this text shows the connection between anatomical structures and associated medial word roots.

Discusses theories and physiology relevant to the manual treatment of chronic pain, especially as it regards the soft tissues of the upper body. Includes step-by-step protocols that address each muscle of a region and a regional approach to treatment, and gives a structural review of each region, including ligaments and functional anatomy.

Job Savvy

Electronic Communication Across the Curriculum

Designing and Building for Health, Well-being, and Sustainability

How to be a Success at Work

Radiation Safety in Nuclear Medicine

Engineering Guidelines for Fixed, Mobile and Satellite Systems

Organizing, Training, and Equipping the Air Force Cyber Workforce

The environment that we construct affects both humans and our natural world in myriad ways. There is a pressing need to create healthy places and to reduce the health threats inherent in places already built. However, there has been little awareness of the adverse effects of what we have constructed-or the positive benefits of well designed built environments.

This book provides a far-reaching follow-up to the pathbreaking *Urban Sprawl and Public Health*, published in 2004. That book sparked a range of inquiries into the connections between constructed environments, particularly cities and suburbs, and the health of residents, especially humans. Since then, numerous studies have extended and refined the book's research and reporting. *Making Healthy Places* offers a fresh and comprehensive look at this vital subject today. There is no other book with the depth, breadth, vision, and accessibility that this book offers. In addition to being of particular interest to undergraduate and graduate students in public health and urban planning, it will be essential reading for public health officials, planners, architects, landscape architects, environmentalists, and all those who care about the design of their communities. Like a well-trained doctor, *Making Healthy Places* presents a diagnosis of—and offers treatment for—problems related to the built environment. Drawing on the latest scientific evidence, with contributions from experts in a range of fields, it imparts a wealth of practical information, with an emphasis on demonstrated and promising solutions to commonly occurring problems.

This edited book promotes and facilitates cybercrime research by providing a cutting-edge collection of perspectives on the critical usage of online data across platforms, as well as the implementation of both traditional and innovative analysis methods. The accessibility, variety and wealth of data available online presents substantial opportunities for researchers from different disciplines to study cybercrimes and, more generally, human behavior in cyberspace. The unique and dynamic characteristics of cyberspace often demand cross-disciplinary and cross-national research endeavors, but disciplinary, cultural and legal differences can hinder the ability of researchers to collaborate. This work also provides a review of the ethics associated with the use of online data sources across the globe. The authors are drawn from multiple disciplines and nations, providing unique insights into the value and challenges evident in online data use for cybercrime scholarship. It is a key text for researchers at the upper undergraduate level and above.

Python Forensics provides many never-before-published proven forensic modules, libraries, and solutions that can be used right out of the box. In addition, detailed instruction and documentation provided with the code samples will allow even novice Python programmers to add their own unique twists or use the models presented to build new solutions. Rapid development of new cybercrime investigation tools is an essential ingredient in virtually every case and environment.

Whether you are performing post-mortem investigation, executing live triage, extracting evidence from mobile devices or cloud services, or you are collecting and processing evidence from a network, Python forensic implementations can fill in the gaps. Drawing upon years of practical experience and using numerous examples and illustrative code samples, author Chet Hosmer discusses how to: Develop new forensic solutions independent of large vendor software release schedules Participate in an open-source workbench that facilitates direct involvement in the design and implementation of new methods that augment or replace existing tools Advance your career by creating new solutions along with the construction of cutting-edge automation solutions to solve old problems Provides hands-on tools, code samples, and detailed instruction and documentation that can be put to use immediately Discusses how to create a Python forensics workbench Covers effective forensic searching and indexing using Python Shows how to use Python to examine mobile device operating systems: iOS, Android, and Windows 8 Presents complete coverage of how to use Python scripts for network investigation THE TELECOMMUNICATIONS HANDBOOK THE TELECOMMUNICATIONS HANDBOOK ENGINEERING GUIDELINES FOR FIXED, MOBILE AND SATELLITE SYSTEMS Taking a practical approach, *The Telecommunications Handbook* examines the principles and details of all the major and modern telecommunications systems currently available to industry and to end-users. It gives essential information about usage, architectures, functioning, planning, construction, measurements and optimization. The structure of the book is modular, giving both overall descriptions of the architectures and functionality of typical use cases, as well as deeper and practical guidelines for telecom professionals. The focus of the book is on current and future networks, and the most up-to-date functionalities of each network are described in sufficient detail for deployment purposes. The contents include an introduction to each technology, its evolution path, feasibility and utilization, solution and network architecture, and technical functioning of the systems (signaling, coding, different modes for channel delivery and security of core and radio system). The planning of the core and radio networks (system-specific field test measurement guidelines, hands-on network planning advices and suggestions for parameter adjustments) and future systems are also described. With contributions from specialists in both industry and academia, the book bridges the gap between communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry.

Clinical Application of Neuromuscular Techniques: The upper body

Collaboration Handbook

Embeddings in Natural Language Processing

Guidelines on Cell Phone Forensics

Water, Watersheds, and Land Use in New Mexico

Neural Machine Translation

Learn how to build machine translation systems with deep learning from the ground up, from basic concepts to cutting-edge research.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

This book provides the first comprehensive legal analysis of the twelve war crimes trials held in the American zone of occupation between 1946 and 1949, collectively known as the Nuremberg Military Tribunals (NMTs). The judgments the NMTs produced have played a critical role in the development of international criminal law, particularly in terms of how courts currently understand war crimes, crimes against humanity, and the crime of aggression. The trials are also of tremendous historical importance,

because they provide a far more comprehensive picture of Nazi atrocities than their more famous predecessor, the International Military Tribunal at Nuremberg (IMT). The IMT focused exclusively on the 'major war criminals'-the Goerings, the Hesses, the Speers. The NMTs, by contrast, prosecuted doctors, lawyers, judges, industrialists, bankers-the private citizens and lower-level functionaries whose willingness to take part in the destruction of millions of innocents manifested what Hannah Arendt famously called 'the banality of evil'. The book is divided into five sections. The first section traces the evolution of the twelve NMT trials. The second section discusses the law, procedure, and rules of evidence applied by the tribunals, with a focus on the important differences between Law No. 10 and the Nuremberg Charter. The third section, the heart of the book, provides a systematic analysis of the tribunals' jurisprudence. It covers Law No. 10's core crimes-crimes against peace, war crimes, and crimes against humanity-as well as the crimes of conspiracy and membership in a criminal organization. The fourth section then examines the modes of participation and defenses that the tribunals recognized. The final section deals with sentencing, the aftermath of the trials, and their historical legacy.

Whether you're working on homelessness or building a rural farm cooperative, the Collaboration Handbook tells you what to expect and how to meet challenges in a way that strengthens your group and the results you're after. Written by Michael Winer and Karen Ray, nationally recognized consultants in collaboration and organizational development, the Collaboration Handbook takes you step-by-step through the entire process, showing you how to know if collaboration is the best way to accomplish your goals, how to get started and keep up the momentum, whether your collaboration has the necessary ingredients to succeed, how to manage the four stages of collaboration, and when it makes sense to test the waters with a pilot project. Features a case study from start to finish, worksheets, and sidebars with helpful tips.

Essential Clinical Skills in Pediatrics

Selected Health Conditions and Likelihood of Improvement with Treatment

Navigation Rules and Regulations Handbook

Researching Cybercrimes

The Clinical Neurophysiology Primer

Clinical Pathways in Stroke Rehabilitation

Waterflooding

In recent years, the field of pharmaceutical microbiology has experienced numerous technological advances, accompanied by the publication of new and harmonized compendial methods. It is therefore imperative for those who are responsible for monitoring the microbial quality of pharmaceutical/biopharmaceutical products to keep abreast of the latest changes. *Microbial Limit and Bioburden Tests: Validation Approaches and Global Requirements* guides readers through the various microbiological methods listed in the compendia with easy-to-follow diagrams and approaches to validations of such test methodologies. Includes New and Updated Material Now in its second edition, this work is the culmination of research and discussions with technical experts, as well as USP and FDA representatives on various topics of interest to the pharmaceutical microbiologist and those responsible for the microbial quality of products, materials, equipment, and manufacturing facilities. New in this edition is an entire chapter dedicated to the topic of biofilms and their impact on pharmaceutical and biopharmaceutical operations. The subject of rapid methods in microbiology has been expanded and includes a discussion on the validation of alternative microbiological methods and a case study on microbial identification in support of a product contamination investigation. Substantially updated and revised, this book assists readers in understanding the fundamental issues associated with pharmaceutical microbiology and provides them with tools to create effective microbial contamination control and microbial testing programs for the areas under their responsibility.

Waterflooding begins with understanding the basic principles of immiscible displacement, then presents a systematic procedure for designing a waterflood.

Aquatic systems play a salient role in the complex processes of energy and matter exchange between the geosphere and the atmosphere. For example, reactions taking place in cloud water droplets can substantially alter the atmospheric budget and chemistry of trace gases; pollution induced weathering reactions at water/soil interfaces can affect the availability of nutrients and increase the concentration of potentially toxic metals in groundwaters. Moreover, the inextricable links between the water cycle, the geosphere and the atmosphere ensure that apparently localized environmental problems have increasingly impacts in other parts of the world. To identify local-to-global scale variables associated with environmental changes, a focus must be placed on the recognition of processes, rather than a continued reliance on monitoring state variables. However, in heterogeneous aquatic systems, small scale aspects of a process under observation may not be summed directly to obtain regional estimates because of process nonlinearities with change in scale. To understand this, the integrated use of measurements across a range of scales is required.

The study of energetic materials is emerging from one primarily directed toward practical interests to an advanced area of fundamental research, where state-of-the-art methods and theory are used side by side with modern synthetic methods. This timely book integrates the recent experimental, synthetic, and theoretical research of energetic materials. Editors George Olah and David Squire emphasize the importance of structure and mechanism in determining properties and performances. They also explore new spectrometric methods and synthetic approaches in this useful reference. Discusses structural analysis by x-ray crystallography Explains chemical dynamics by photofragmentation translational spectroscopy Covers kinetic analysis by ultrafast absorption and emission spectroscopy Details syntheses of polycyclic caged amines, fuel additives, and polynitro compounds

Examines computer-aided design of monopropellants Includes contributions by two Nobel laureates and five members of the National Academy of Sciences

International—Inland

A Neurolinguistic Solution to Ambiguity and Complexity in Machine Translation

A Workbench for Inventing and Sharing Digital Forensic Technology

DDT

A Practical Guide to History Taking and Clinical Examination

Creating, Sustaining, and Enjoying the Journey

Python Forensics

In response to a tasking from the Air Force chief of staff, the Air Force Research Institute conducted a review of how the service organizes, educates/trains, and equips its cyber workforce. The resulting findings were used to develop recommendations for how the Air Force should recruit, educate, train, and develop cyber operators from the time they are potential accessions until they become senior leaders in the enlisted and officer corps. This study's discoveries, analyses, and recommendations are aimed at guiding staff officers and senior leaders alike as they consider how to develop a future cyber workforce that supports both Air Force and US Cyber Command missions across the range of military operations.

Master the tools and techniques of mobile forensic investigations Conduct mobile forensic investigations that are legal, ethical, and highly effective using the detailed information contained in this practical guide. Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition fully explains the latest tools and methods along with features, examples, and real-world case studies. Find out how to assemble a mobile forensics lab, collect prosecutable evidence, uncover hidden files, and lock down the chain of custody. This comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court-ready documents. •Legally seize mobile devices, USB drives, SD cards, and SIM cards•Uncover sensitive data through both physical and logical techniques•Properly package, document, transport, and store evidence•Work with free, open source, and commercial forensic software•Perform a deep dive analysis of iOS, Android, and Windows Phone file systems•Extract evidence from application, cache, and user storage files•Extract and analyze data from IoT devices, drones, wearables, and infotainment systems•Build SQLite queries and Python scripts for mobile device file interrogation•Prepare reports that will hold up to judicial and defense scrutiny

The history of the American Ranger is a long and colorful saga of courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of highly-trained and well-organized soldiers, US Army Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice—and they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN: 9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673)

This book is a concise learning guide dedicated to the full scope of pediatric history-taking and clinical examination, for use in OSCEs as well as clinical life. It guides the reader simply and methodically through what to ask when taking a history, and how to perform a comprehensive physical examination. The book contains more than 30 "History Stations" covering the most common pediatric cases, as well as 10 "Examination Stations" covering examinations of the different body system. It provides students and resident doctors worldwide with the necessary core information for pediatric history-taking and clinical examination, all in a brief and interesting format. The book adopts a reader-friendly format through a lecture-note style and the use of Key Points, Clinical Tips, Notes, Tables, and Boxes listing the most important features. It is also richly illustrated, demonstrating the correct way to perform clinical examinations. Written "by a resident, for residents and medical students," this book has been revised, foreworded, and peer-reviewed by fourteen prominent authorities in the field of Pediatrics from various parts of the world (including the United States, United Kingdom, Australia, Italy, Canada, and India), and from different universities (Illinois, Pennsylvania, Washington, Oxford, Edinburgh, Keele, Melbourne, Toronto, Parma, and Florence Universities).

These experts recommend this book for medical students, pediatric residents, and pediatric practitioners, as well as pediatricians.

A Short-Course Approach by Body System

Handbook of Digital Forensics and Investigation

A Practical Guide

Mechanical Engineering

Medical Terminology Express

Making Healthy Places

The Trigger Point Manual

Guidelines on Cell Phone Forensics CreateSpace

Why do we need more questionnaires to measure aspects of spirituality/religiosity when we already have so many well-tried instruments in use? One answer is that research in this field is growing and that new research questions continuously do arise. Several of these new questions cannot be easily answered with the instruments designed for previous questions. The field is expanding and, consequently, the research topics. Meanwhile several multidimensional instruments were developed which cover existential, prosocial, religious and non-religious forms of spirituality, hope, peace and trust—and several more. The ‘disadvantage’ of these instruments is the fact that some are conceptually broad and often rather unspecific, but they might be suited quite well for culturally and spiritually diverse populations when the intention is to compare such diverse groups. This is the reason why more research on new instruments is needed as can be found in this Special Issue, and to stimulate a critical debate about their pros and cons.

This open access book focuses on practical clinical problems that are frequently encountered in stroke rehabilitation. Consequences of diseases, e.g. impairments and activity limitations, are addressed in rehabilitation with the overall goal to reduce disability and promote participation. Based on the available best external evidence, clinical pathways are described for stroke rehabilitation bridging the gap between clinical evidence and clinical decision-making. The clinical pathways answer the questions which rehabilitation treatment options are beneficial to overcome specific impairment constellations and activity limitations and are well acceptable to stroke survivors, as well as when and in which settings to provide rehabilitation over the course of recovery post stroke. Each chapter starts with a description of the clinical problem encountered. This is followed by a systematic, but concise review of the evidence (RCTs, systematic reviews and meta-analyses) that is relevant for clinical decision-making, and comments on assessment, therapy (training, technology, medication), and the use of technical aids as appropriate. Based on these summaries, clinical algorithms / pathways are provided and the main clinical-decision situations are portrayed. The book is invaluable for all neurorehabilitation team members, clinicians, nurses, and therapists in neurology, physical medicine and rehabilitation, and related fields. It is a World Federation for NeuroRehabilitation (WFNR) educational initiative, bridging the gap between the rapidly expanding clinical research in stroke rehabilitation and clinical practice across societies and continents. It can be used for both clinical decision-making for individuals and as well as clinical background knowledge for stroke rehabilitation service development initiatives.

The FAAT List is not designed to be an authoritative source, merely a handy reference. Inclusion recognizes terminology existence, not legitimacy. Entries known to be obsolete are included because they may still appear in extant publications and correspondence.

Chemistry of Aquatic Systems: Local and Global Perspectives

The Human Side of Cyber Conflict

Embedded Networking with CAN and CANopen

A Manual for the Health Care Provider

A Review of Scientific and Economic Aspects of the Decision to Ban Its Use as a Pesticide : Prepared for Committee on Appropriations, U.S. House of Representatives

Methodologies, Ethics, and Critical Approaches

Chemistry of Energetic Materials

The Social Security Administration (SSA) administers two programs that provide disability benefits: the Social Security Disability Insurance (SSDI) program and the Supplemental Security Income (SSI) program. SSDI provides disability benefits to people (under the full retirement age) who are no longer able to work because of a disabling medical condition. SSI provides income assistance for disabled, blind, and aged people who have limited income and resources regardless of their prior participation in the labor force. Both programs share a common disability determination process administered by SSA and state agencies as well as a common definition of disability for adults: "the inability to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment which can be expected to result in death or which has lasted or can be expected to last for a continuous period of not less than 12 months." Disabled workers might receive either SSDI benefits or SSI payments, or both, depending on their recent work history and current income and assets. Disabled workers might also receive benefits from other public programs such as workers' compensation, which insures against work-related illness or injuries occurring on the job, but those other programs have their own definitions and eligibility criteria. Selected Health Conditions and Likelihood of Improvement with Treatment identifies and defines the professionally accepted, standard measurements of outcomes improvement for medical conditions. This report also identifies specific, long-lasting medical conditions for adults in the categories of mental health disorders, cancers, and musculoskeletal disorders. Specifically, these conditions are disabling for a length of time, but typically don't result in permanently disabling limitations; are responsive to treatment; and after a specific length of time of treatment, improve to the point at which the conditions are no longer disabling.

Embeddings have undoubtedly been one of the most influential research areas in Natural Language Processing (NLP). Encoding information into a low-dimensional vector representation, which is easily integrable in modern machine learning models, has played a central role in the development of NLP. Embedding techniques initially focused on words, but the attention soon started to shift to other forms: from graph structures, such as knowledge bases, to other types of textual content, such as sentences and documents. This book provides a high-level synthesis of the main embedding techniques in NLP, in the broad sense. The book starts by explaining conventional word vector space models and word embeddings (e.g., Word2Vec and GloVe) and then moves to other types of embeddings, such as word sense, sentence and document, and graph embeddings. The book also provides an overview of recent developments in contextualized representations (e.g., ELMo and BERT) and explains their potential in NLP. Throughout the book, the reader can find both essential information for understanding a certain topic from scratch and a broad overview of the most successful techniques developed in the literature.

This book is about machine translation (MT) and the classic problems associated with this language technology. It examines the causes of these problems and, for linguistic, rule-based systems, attributes the cause to language's ambiguity and complexity and their interplay in logic-driven processes. For non-linguistic, data-driven systems, the book attributes translation shortcomings to the very lack of linguistics. It then proposes a demonstrable way to relieve these drawbacks in the shape of a working translation model (Logos Model) that has taken its inspiration from key assumptions about psycholinguistic and neurolinguistic function. The book suggests that this brain-based mechanism is effective precisely because it bridges both linguistically driven and data-driven methodologies. It shows how simulation of this cerebral mechanism has freed this one MT model from the all-important, classic problem of complexity when coping with the ambiguities of language. Logos Model accomplishes this by a data-driven process that does not sacrifice linguistic knowledge, but that, like the brain, integrates linguistics within a data-driven process. As a consequence, the book suggests that the brain-like mechanism embedded in this model has the potential to contribute to further advances in machine translation in all its technological instantiations.

The Journal of the American Society of Mechanical Engineers
Ranger Handbook (Large Format Edition)

Impacts of Population Growth on Natural Resources, Santa Fe Region 2001

Theory and Advances in Vector Representations of Meaning

Measures of Spirituality/Religiosity—Description of Concepts and Validation of Instruments