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World Maps for Finding the Direction and Distance of Mecca - David A. King 1999-01-01
The author describes how Muslims over the centuries have determined the sacred direction ("qibla") towards Mecca and presents two highly sophisticated Mecca-centred world-maps for finding the "qibla." These recently-discovered world-maps have forced a reevaluation of Muslim achievements in mathematics and cartography.

Mapping, Planning and Exploration with Pose SLAM - Rafael Valencia 2017-06-21
This monograph introduces a unifying framework for mapping, planning and

exploration with mobile robots considering uncertainty, linking such problems with a common SLAM approach, adopting Pose SLAM as the basic state estimation machinery. Pose SLAM is the variant of SLAM where only the robot trajectory is estimated and where landmarks are used to produce relative motion measurements between robot poses. With regards to extending the original Pose SLAM formulation, this monograph covers the study of such measurements when they are obtained with stereo cameras, develops the appropriate noise propagation models for such case, extends the Pose SLAM formulation to SE(3), introduces information-theoretic loop closure tests, and presents a technique to compute traversability maps from the 3D volumetric maps obtained with Pose SLAM. A relevant topic covered in this monograph is the introduction of a novel path planning approach that exploits the modeled uncertainties in Pose SLAM to search for the path in the pose graph that allows the robot to navigate to a given goal with the least probability of becoming lost. Another relevant topic is the introduction of an autonomous exploration method that selects the appropriate actions to drive the robot so as to maximize coverage, while minimizing localization and map uncertainties. This monograph is appropriate for readers interested in an information-theoretic unified perspective to the SLAM, path planning and exploration problems, and is a reference book for people who work in mobile robotics research in general.

Los Alamos Science - 1988

Applied Science & Technology Index - 1978

Catalog of Copyright Entries, Third Series - Library of Congress. Copyright Office 1972
The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim (the name of the copyright claimant as

given in the application for registration, the copyright date, the copyright registration number, etc.).

Monthly Catalogue, United States Public Documents - 1984-03

Teaching the Best Practice Way - Harvey Daniels 2005
Everyone talks about "best practice" teaching--but what does it actually look like in the classroom? How do working teachers translate complex curriculum standards into simple, workable classroom structures that embody exemplary instruction--and still let kids find joy in learning?In Teaching the Best Practice Way, Harvey Daniels and Marilyn Bizar present seven basic teaching structures that make classrooms more active, experiential, collaborative, democratic, and cognitive, while simultaneously meeting "best practice" standards across subject areas and throughout the grades. Each section begins with an essay outlining one key method, providing its historical background and research results, and then describing the structure's vital features. Next, several teachers representing different grade levels and school communities explain how they adopted the basic model, adapted it to their students' needs, and made it their own.Fully updating and expanding Methods that Matter (Stenhouse, 1998), Teaching the Best Practice Way adds the stories of twenty more celebrated teachers, including James Beane, Donna Ogle, Franki Sibberson, and others from around the country. A brand-new chapter focuses on reading as thinking, detailing the ways teachers can nurture strategic readers--readers who not only deeply understand the printed materials they encounter in school, but who also bring these cognitive strategies to their "reading" of film, art, music, and their experience of the world. The book also shares new research studies that validate the principles and activities of best practice teaching, along with lists of recommended materials that

support each of the seven methods.Unique in the field, Teaching the Best Practice Way speaks to all teachers, K-12, with stories, examples, and practical classroom materials for the teachers of all children. This is the book for teachers, schools, and districts that believe the big ideas about teaching really do cross all grade levels and subject areas. Education professors will also find this an ideal resource for use in methods courses.

Advancing Strategic Science - National Research Council 2012-10-26
Science is increasingly driven by data, and spatial data underpin the science directions laid out in the 2007 U.S. Geological Survey (USGS) Science Strategy. A robust framework of spatial data, metadata, tools, and a user community that is interactively connected to use spatial data in an efficient and flexible way-known as a spatial data infrastructure (SDI)-must be available for scientists and managers to find, use, and share spatial data both within and beyond the USGS.

Over the last decade, the USGS has conducted breakthrough research that has overcome some of the challenges associated with implementing a large SDI. Advancing Strategic Science: A Spatial Data Infrastructure Roadmap for the U.S. Geological Survey is intended to ground those efforts by providing a practical roadmap to full implementation of an SDI to enable the USGS to conduct strategic science.

Advanced Applications in Remote Sensing of Agricultural Crops and Natural Vegetation - Prasad S. Thenkabail 2018-12-07
Written by leading global experts, including pioneers in the field, the four-volume set on Hyperspectral Remote Sensing of Vegetation, Second Edition, reviews existing state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of hyperspectral data in the study and management of agricultural crops and natural vegetation. Volume IV, Advanced Applications in Remote Sensing of Agricultural

Crops and Natural Vegetation discusses the use of hyperspectral or imaging spectroscopy data in numerous specific and advanced applications, such as forest management, precision farming, managing invasive species, and local to global land cover change detection. It emphasizes the importance of hyperspectral remote sensing tools for studying vegetation processes and functions as well as the appropriate use of hyperspectral data for vegetation management practices. The concluding chapter provides readers with useful guidance on the highlights and essence of Volume IV through the editors' perspective. Key Features of Volume IV: Guides readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation. Includes specific applications on agriculture, crop management practices, study of crop stress and diseases, crop characteristics based on inputs (e.g., nitrogen, irrigation), study of vegetation impacted by heavy metals, gross and net primary productivity studies, light use efficiency studies, crop water use and actual evapotranspiration studies, phenology monitoring, land use and land cover studies, global change studies, plant species detection, wetland and forest characterization and mapping, crop productivity and crop water productivity mapping, and modeling. Encompasses hyperspectral or imaging spectroscopy data in narrow wavebands used across visible, red-edge, near-infrared, far-infrared, shortwave infrared, and thermal portions of the spectrum. Explains the implementation of hyperspectral remote sensing data processing mechanisms in a standard, fast, and efficient manner for their applications. Discusses cloud computing to overcome hyperspectral remote sensing massive big data challenges. Provides hyperspectral analysis of rocky surfaces on the earth and other planetary systems.

The Imperial Map - James R. Akerman 2009-03

Maps from virtually every culture and period convey our tendency to see our communities as the centre of the world (if not the universe) and, by implication, as superior to anything beyond our boundaries. This study examines how cartography has been used to prop up a variety of imperialist enterprises.

Catalog of the Pedagogical Library - Philadelphia School district. Board of Public Education 1907

FGCS '92 - 1992
The FGCS project was introduced at a congerence in 1981 and commenced the following year. This volume contains the reports on the final phase of the project, showing how the research goals set were achieved.
Land Use Planning Abstracts - 1974

Mapping College Chemistry - Stephen DeMeo 2019-03-01
This text is a chemistry problem solving resource appropriate for teachers and their students who are enrolled in high school Advanced Placement Chemistry or in a first-year college General Chemistry course. The book incorporates a chemistry problem solving plan, one that uses an innovative graphic organizer strategy. The strategy - successfully evaluated with students - combines problem solving processes with chemical concepts that will allow students to solve the most common and difficult problems encountered in the first year of chemistry. Topical problem solving will focus on limiting reactant stoichiometry, identifying types of chemical reactions, equilibrium, acid-base equilibria, and electrochemistry. Why would this resource be of interest to chemistry students? To be successful (to get into a well known college, medical school, physical therapy or graduate program) often requires that students get an "A" in your pre-requisite Introductory General Chemistry course. To make matters worse, many college professors feel that only a few students should get A grades, and therefore, they give

difficult exams that many students fail; this is the weeding out process that every pre-health student is apprehensive about. To succeed in this competitive environment entails not just studying harder or longer, it means re-organizing textbook content so that it is meaningful to the student. This is the first text of its kind to employ a reliable, research-based strategy that incorporates a decision-based visual tool to solve chemistry textbook problems, ones that can make or break a career.

Catalogue of the Pedagogical Library - Philadelphia (Pa.). Public Education Board 1907

Earth Resources - 1983

Science for Decisionmaking - National Research Council 1999-10-20
The coastlines of the United States are beautiful places to live, work and play. But, they are also very fragile areas whose ecosystems are vulnerable to mismanagement. There are many complex issues facing the ocean science community at the federal, state and local levels-this report reflects the conclusions and recommendations of the National Academies drawing on discussions with USGS as well as input from potential users, clients and collaborators of the Coastal and Marine Geology Program.

Artificial Life and Intelligent Agents - Peter R. Lewis 2018-04-18
This book constitutes the refereed proceedings of the Second International Symposium on Artificial Life and Intelligent Agents, ALIA 2016, held in Birmingham, UK, in June 2016. The 8 revised full papers and three revised short papers presented together with two demo papers were carefully reviewed and selected from 25 submissions. The papers are organized in topical sections on modelling; robotics; bio-inspired problem solving; human-like systems; applications and games.

List of Geological Survey Geologic and Water-

supply Reports and Maps for Utah - Geological Survey (U.S.) 1988

Hands-on Astronomy For Education - Proceedings Of The Workshop - Pennypacker C 1992-08-07
Historically, the theory of stability is based on linear differential systems, which are simple and important systems in ordinary differential equations. The research on differential equations and on the theory of stability will, to a certain extent, be influenced by the research on linear differential systems. For differential linear equation systems, there are still many historical open questions attracting mathematicians. This book deals with the theory of linear differential systems developed around the notion of exponential dichotomies. The first author advanced the theory of stability through his research in this field.Several new important results on linear differential systems are presented. They concern exponential dichotomy and the structure of the sets of hyperbolic points. The book has five chapters: Chapter 1 introduces some necessary classical results on the linear differential systems, and the following chapters discuss exponential dichotomy, spectra of almost periodic linear systems, the Floquet theory for quasi periodic linear systems and the structure of sets of hyperbolic points. This book is a very useful reference in the area of the stability theory of ordinary differential equations and the theory of dynamic systems.
List of U.S. Geological Survey Geologic and Water-supply Reports and Maps for California - Geological Survey (U.S.) 1987

The Cumulative Book Index - 1973
A world list of books in the English language.
List of U.S. Geological Survey Geologic and Water-supply Reports and Maps for California - 1987

Library of Congress Catalog - United States

1977

Scientific and Technical Aerospace Reports - 1972
Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.
Hull-House Maps and Papers - Residents of Hull-House 2007-01-15
Jane Addams's early attempt to empower the people with information
OF2004-02: Biennial Report of the Nevada Bureau of Mines and Geology -

Strengthening Forensic Science in the United States - National Research Council 2009-07-29
Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines,

including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Mapping Polygons - Yann Disser 2011
This thesis focuses on the exploration of polygonal environments with simple agents. The goal is to understand what minimal capabilities such agents need in order to draw a map of their environment. Starting from a very basic agent model, we investigate what extra capabilities agents need in order to reconstruct the visibility graph of their environment. Some combinations of capabilities are shown to be insufficient, while others are shown to be sufficient. For the latter, we present reconstruction algorithms and algorithms for meeting with other agents.

Leonardo's Science Workshop - Heidi Olinger 2019-01-01
Leonardo's Science Workshop leads children on an interactive adventure through key science concepts by following the multidisciplinary approach of the Renaissance period polymath Leonardo da Vinci: experimenting, creating projects, and exploring how art intersects with science and nature. Photos of Leonardo's own notebooks, paintings, and drawings provide visual inspiration. More than 500 years ago, Leonardo knew that the fields of science, technology, engineering, art, and mathematics (STEAM) are all connected. The insatiably curious Leonardo examined not just the outer appearance of his art subjects, but the science that explained them. He began his studies as a painter, but his curiosity, diligence, and genius made him also a master sculptor, architect, designer, scientist, engineer, and inventor. The Leonardo's Workshop series shares this spirit of

multidisciplinary inquiry with children through accessible, engaging explanations and hands-on learning. This fascinating book harnesses children's innate curiosity to explore some of Leonardo's favorite subjects, including flight, motion, technology design, perspective, and astronomy. After each topic is explained with concepts from physics, chemistry, math, and engineering, kids can experience the principles first-hand with step-by-step STEAM projects. They will explore: The physics of flight by observing birds and experimenting with paper airplane designs The science of motion by building a windup dragonfly Gravitational acceleration with water balloons The movement of electrons by making cereal "dance" Technology design by making paper and fabric using recycled material Scientific perspective by drawing a 3D illusion Insight from other great thinkers—such as Galileo Galilei, James Clerk Maxwell, and Sir Isaac Newton—are woven into the lessons throughout. Introduce vital STEAM

skills through visually rich, hands-on learning with Leonardo's Science Workshop. Hyperspectral Remote Sensing of Vegetation, Second Edition, Four Volume Set - Prasad S. Thenkabail 2022-07-30 Written by leading global experts, including pioneers in the field, the four-volume set on Hyperspectral Remote Sensing of Vegetation, Second Edition, reviews existing state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of hyperspectral data in the study and management of agricultural crops and natural vegetation. Volume I, Fundamentals, Sensor Systems, Spectral Libraries, and Data Mining for Vegetation introduces the fundamentals of hyperspectral or imaging spectroscopy data, including hyperspectral data processes, sensor systems, spectral libraries, and data mining and analysis, covering both the strengths and limitations of these topics. Volume II, Hyperspectral Indices and Image

Classifications for Agriculture and Vegetation evaluates the performance of hyperspectral narrowband or imaging spectroscopy data with specific emphasis on the uses and applications of hyperspectral narrowband vegetation indices in characterizing, modeling, mapping, and monitoring agricultural crops and vegetation. Volume III, Biophysical and Biochemical Characterization and Plant Species Studies demonstrates the methods that are developed and used to study terrestrial vegetation using hyperspectral data. This volume includes extensive discussions on hyperspectral data processing and how to implement data processing mechanisms for specific biophysical and biochemical applications such as crop yield modeling, crop biophysical and biochemical property characterization, and crop moisture assessments. Volume IV, Advanced Applications in Remote Sensing of Agricultural Crops and Natural Vegetation discusses the use of hyperspectral or imaging spectroscopy data in numerous specific and advanced applications, such as forest management, precision farming, managing invasive species, and local to global land cover change detection.
NASA Scientific and Technical Publications - 1987

The Changing Role of Geological Surveys - P.R. Hill 2020-12-07
Senior managers and Heads of Geological Survey Organizations (GSOs) from around the world have contributed a collection of papers to provide a benchmark on how GSOs are responding to national and international needs in a rapidly changing world. GSOs continue to provide key scientific information about Earth systems, natural hazards and climate change. As countries adopt sustainable development principles and the public increasingly turns to social media to find information about resource and environmental issues, the generation and communication of Earth science knowledge

become increasingly important. This volume provides a snapshot of how GSOs are adapting their activities to this changing world. The different national perspectives presented converge around several common themes related to resources, environment and big data. Climate change and the UN's Sustainable Development Goals provide an increased incentive for GSOs of the world to work in harmony, to generate knowledge of Earth systems and to provide solutions for sustainable management of the planet.

List of U.S. Geological Survey Geologic and Water-supply Reports and Maps for Utah - Geological Survey (U.S.) 1988

Best Practices of GeoInformatic Technologies for the Mapping of Archaeolandscapes - Apostolos Sarris 2015-11-30
Twenty-five papers from the Institute for Mediterranean Studies in Crete provide a best practice guide for the use of geophysical, geoarchaeological, geochemical and surveying techniques to study ancient landscapes.
Sea Grant Publications Index - 1968

Monthly Catalog of United States Government Publications -

Launching Learners in Science, PreK-5 - Kerry C. Williams 2007
"Expertly describes how educators can plan a science curriculum that facilitates primary students' understanding, skills, and affective development of science, preparing them for careers requiring any level of scientific knowledge and giving them science literacy to make decisions that benefit society and the world." a?Robert D. Sweetland, Professor, Wayne State College Design science instruction that helps develop enthusiastic young minds while meeting national standards! Teaching science means doing science and involves three elements: knowing content, knowing children,

and teachers knowing themselves as teachers and learners. Kerry C. Williams and George E. Veomett describe principles and requirements that reflect National Science Education Standards for the active learning of science. They identify key ingredients for primary students and their development as young scientists. This resource is consistent with HighScope preschool sciences and is also linked to research on cognitive and neural development and motivational theory from the work of Piaget and Vygotsky. Teachers inexperienced in science will discover new ways to think about science while they develop lessons that are rich, fun, and authentic for themselves and their students. All educators will find examples, questions, stories, and thought-provoking ideas to give students a strong start in science achievement, plus: Six key elements to build into science instruction: Observing, Representing, Organizing, Patterning and Questioning, Experimenting, and Sharing How-to's for incorporating inquiry, workshops, centers, and projects in primary and elementary classrooms A 4-step systema?Choice, Planning, Doing, Reviewinga'that helps promote learning in science and across all subjects Launching Learners in Science, PreKa?5 helps educators teach science in a way that will expand their own confidence and let them make a lasting difference in children's lives!

The National Union Catalogs, 1963- - 1964

Hyperspectral Remote Sensing of Vegetation - Prasad S. Thenkabail 2016-04-19 Hyperspectral narrow-band (or imaging spectroscopy) spectral data are fast emerging as practical solutions in modeling and mapping vegetation. Recent research has demonstrated the advances in and merit of hyperspectral data in a range of applications including quantifying agricultural crops, modeling forest canopy biochemical properties, detecting crop stress and disease, mapping leaf chlorophyll content as it influences crop production, identifying plants

affected by contaminants such as arsenic, demonstrating sensitivity to plant nitrogen content, classifying vegetation species and type, characterizing wetlands, and mapping invasive species. The need for significant improvements in quantifying, modeling, and mapping plant chemical, physical, and water properties is more critical than ever before to reduce uncertainties in our understanding of the Earth and to better sustain it. There is also a need for a synthesis of the vast knowledge spread throughout the literature from more than 40 years of research. Hyperspectral Remote Sensing of Vegetation integrates this knowledge, guiding readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation. Taking a practical approach to a complex subject, the book demonstrates the experience, utility, methods and models used in studying vegetation using hyperspectral data. Written by leading experts, including pioneers in the field, each chapter presents specific applications, reviews existing state-of-the-art knowledge, highlights the advances made, and provides guidance for the appropriate use of hyperspectral data in the study of vegetation as well as its numerous applications, such as crop yield modeling, crop and vegetation biophysical and biochemical property characterization, and crop moisture assessment. This comprehensive book brings together the best global expertise on hyperspectral remote sensing of agriculture, crop water use, plant species detection, vegetation classification, biophysical and biochemical modeling, crop productivity and water productivity mapping, and modeling. It provides the pertinent facts, synthesizing findings so that readers can get the correct picture on issues such as the best wavebands for their practical applications, methods of analysis using whole spectra, hyperspectral vegetation indices targeted to study specific biophysical and biochemical quantities, and methods for

detecting parameters such as crop moisture variability, chlorophyll content, and stress levels.

A collective "knowledge bank," it guides professionals to adopt the best practices for their own work.