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the global population is projected to exceed 9 billion by 2050 leading to imminent food shortages not only for the current but also future generations anticipated increases in appetite coming 50 years will pose significant challenges to food production this demand will exert additional pressure on agriculture for the escalating need for food on one hand research indicates a 60 increase in food production is necessary to accommodate the projected 9 billion people on the other hand a substantial portion of the population is grappling with various micronutrient deficiencies such as iron zinc iodine vitamin a and folic acid a condition referred to as hidden hunger hence it is imperative to exert substantial

efforts towards developing improved cultivars under enhanced technological conditions concerns about climate change are anticipated to profoundly affect soil water availability carbon storage and crop yields droughts in the mediterranean and africa are expected to worsen during certain seasons each year climate change leads to substantial losses in agricultural production with a worsening scenario in the future wheat breeding has witnessed significant advancements with the wheat genomics whole genome sequencing high throughput phenotyping genome editing technologies and marker assisted breeding these enable genome based breeding to produce higher enough yielding by 2050 speed breeding has a crucial role in the incorporation of new genes into breeding pipelines facilitating the creation of innovative homozygous advanced lines and accelerating the identification and functional characterization of new genes climate change and recent technological advancements necessitate efficient utilization of remote sensing digital tools and artificial intelligence approaches have gained prominence in wheat agriculture this book aims to encompass both past and upcoming research activities in this domain it serves as a valuable resource for wheat breeders interested in leveraging modern data technologies in their research endeavours

following two successful editions the third edition of gis a computing perspective has been completely revised and updated with extensive new content reflecting the significant progress that has been made in the realm of gis within the last 20 years major new topics covered for the first time in this edition include graph databases and graph query languages ontology engineering and qualitative spatial reasoning geosensor networks and geoai decentralized computing and online algorithms and critical gis and data sovereignty features includes an entirely new chapter on ai and gis including ontologies and the semantic knowledge representation kr and spatial reasoning machine learning and spatial analysis and neural networks and deep learning presents new material reflecting the advances made in cloud computing stream computing and sensor networks as well as extensively revised and updated content on cartography visualization and interaction design connects the technology to the social aspects and implications of gis including privacy and fair information practices fate fairness accountability transparency and ethics and codes of conduct for responsible use of gis integrates the necessary background to foundational areas such as databases and data structures algorithms and indexes and system architecture and ai provided in context so readers new to those topics can still understand the concepts being discussed incorporates over 20 carefully explained spatial algorithms over 60 inset boxes with in depth material that enriches the central topics and more than 300 color figures to support the reader in mastering key concepts welcomes a new coauthor qian chayn sun to the third edition who brings her expertise in topics such as web mapping cloud computing critical geography and machine learning with big spatial data intended for anyone interested in understanding gis especially students taking upper level undergraduate and graduate courses in computer science and geography as well as academics researchers practitioners and professionals working in the field and involved in

advanced gis projects

spatial dimensions need to be properly captured if modelling and engineering techniques are to be successfully applied in addressing environmental problems the links between the geographical information systems gis that capture this data simulation modelling and engineering offer tremendous possibilities for building versatile support systems for managing the environment gis environmental modelling and engineering focuses on using gis and external models to solve real environmental problems promoting the critical thinking needed for the effective applications of these systems and their analytical outputs divided into three major sections this textbook first concentrates on defining gis identifying how data is structured and explaining common functionality the text examines gis from a technological perspective exploring the evolution of its scientific basis and its synergies with other technologies within a geocomputational paradigm the next section explores modelling from a neutral scientific perspective in its role of simulating phenomena as well as from a more specific perspective in its role within environmental science and engineering the third and largest section looks at how gis and simulation modelling are joined it provides case studies and covers issues such as interoperability data quality model validity space time dynamics and decision support systems this volume provides seniors and postgraduate students with a structured coherent text that goes beyond introductory subject matter by enabling readers to think critically about the data acquisition process and the results they get from the technology

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the updated second edition of fundamentals of geographic information systems includes thirteen laboratory exercises integrated into the text itself the labs are linked to particular chapter where the concepts described in the reading can be practiced immediately in a laboratory setting the second edition of this well received text on principles of geographic information systems gis continues the author s style of straight talk in its presentation the writing is accessible and easy to follow unlike most other texts this book covers gis design and modeling reflecting the belief that modeling and analysis are at the heart of gis this enables students to understand how to use a gis and what it does

exploit the advantages of geographic information systems in your business once the domain of cartographers and other specialists geographic information systems gis are increasingly being employed by the business community location based services supply chain management management of field distributed equipment geographical marketing and promotion and the spatial web are some of the current business applications which make use of gis principles written specifically for the businessperson geo business gis in

the digital organization is the first book to provide comprehensive coverage of gis applications in the business and organizational environment going beyond a strictly geographical focus this book sets gis in the context of business information systems and other business sub disciplines such as logistics marketing finance and strategic management it presents from an organizational perspective the advantages of spatially enabling existing enterprise systems and illustrates how gis is applied in the real world through rigorous case study analyses of twenty companies including baystate health chico s kaiser permanente lamar advertising company rand mcnally southern company sears roebuck and sperry van ness in this book you ll find out what gis is and how it can be integrated into your organization s existing information infrastructure how gis is currently making businesses better and how you can apply the same techniques to your industry or organization the expanding roles of gis and spatial technologies in the web and mobile environments the ethical legal and security issues of special technologies how to conduct a cost benefit and roi analyses for gis grounded in the real world of business and it geo business will show you how spatially enabling your it systems can give you a unique advantage to beat your competitors in the market win and retain customers grow your business make better decisions develop new products and services and optimize your workflow

lining up data in arcgis a guide to map projections is an easy to navigate troubleshooting reference for any gis user with the common problem of data misalignment complete with full color maps and diagrams this book presents practical techniques on how to identify data projections create custom projections to align data and solve common data alignment problems the second edition is compatible with arcgis 10 1 and includes new sections on aligning cad data and appropriate use of the web mercator projection this book will benefit new and experienced gis users alike

with this third edition of open source gis a grass gis approach we enter the new era of grass6 the first release that includes substantial new code developed by the international grass development team the dramatic growth in open source software libraries has made the grass6 development more efficient and has enhanced grass interoperability with a wide range of open source and proprietary geospatial tools thoroughly updated with material related to the grass6 the third edition includes new sections on attribute database management and sql support vector networks analysis lidar data processing and new graphical user interfaces all chapters were updated with numerous practical examples using the first release of a comprehensive state of the art geospatial data set

for more than thirty years the history of cartography project has charted the course for scholarship on cartography bringing together research from a variety of disciplines on the creation dissemination and use of maps volume 6 cartography in the twentieth century continues this tradition with a groundbreaking survey of the century just ended and a new

full color encyclopedic format the twentieth century is a pivotal period in map history the transition from paper to digital formats led to previously unimaginable dynamic and interactive maps geographic information systems radically altered cartographic institutions and reduced the skill required to create maps satellite positioning and mobile communications revolutionized wayfinding mapping evolved as an important tool for coping with complexity organizing knowledge and influencing public opinion in all parts of the globe and at all levels of society volume 6 covers these changes comprehensively while thoroughly demonstrating the far reaching effects of maps on science technology and society and vice versa the lavishly produced volume includes more than five hundred articles accompanied by more than a thousand images hundreds of expert contributors provide both original research often based on their own participation in the developments they describe and interpretations of larger trends in cartography designed for use by both scholars and the general public this definitive volume is a reference work of first resort for all who study and love maps

the single best resource for learning how technology can make the nursing experience as rewarding and successful as possible a doody s core title for 2024 2023 essentials of nursing informatics provides the information and insights readers need to manage and process data to improve the quality and outcomes of healthcare topics include the use of computers in nursing administration practice education and research computer systems and information theory electronic medical records continuum of care information technology systems and personal health records coding and government clinical and private sector system requirements this revised and updated edition covers the latest changes in technology administration policy and their effects on healthcare informatics in the u s with contributing international authors from canada south america europe asia australia and new zealand the seventh edition includes section summaries and each chapter includes sample test questions and answers this updated seventh edition covers nursing informatics technologies nursing practice applications system standards advanced applications for the 4th nursing it revolution system life cycle educational applications informatics theory standards research applications policies and quality measures in healthcare

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this book is an excellent reference for users of esri arcgis survey analyst one of the available extensions to the arcgis desktop products arcinfo arceditor and arcview arcgis survey analyst enables users to store manage and analyze survey measurements and coordinates collected from a variety of sources arcgis survey analyst allows survey computations to be stored in a geodatabase and provides the ability to associate survey data with geographic information system gis features arcgis survey analyst adds a specialized survey explorer dialog which provides a means to enter and edit survey data

begin with the quick start tutorial for an overview of executing basic arcgis survey analyst functions if you prefer jump right in and experiment on your own the book also includes concise step by step fully illustrated examples

this workbook will provide an introduction to the basics of gis as a tool to view data analyze and compare relationships and to visualize change in our natural and social environments it will allow students to learn by doing as well as provide instructors with homework discussion or lab sessions to assign exploring environmental solutions with gis complements any physical geology earth science environmental geology environmental science ecology or natural disasters course this workbook is intended to serve students in a wide range of courses and disciplines exercises engage issues at the intersection of many disciplines such as water quality population growth environmental hazards and land use exercises may be done in any order with the exception of the first one which introduces basic functions in arcexplorer the length of exercises is designed so that most students can complete their work in an hour or less

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