

Geographic Information Systems (GIS) rely on fundamental concepts of **data models** and **data structures** to effectively represent, store, and manipulate geographic information. A **data model** defines the logical framework of the data, outlining data types and their relationships, while a **data structure** is the actual implementation, detailing how data is stored and accessed. Together, these concepts enable GIS to manage complex real-world geographical phenomena for mapping, analysis, and decision-making.

## GIS Data Models

The GIS data model digitally represents real-world features, which can be physical (like rivers) or abstract (like administrative boundaries). There are two primary types: the **vector data model** and the **raster data model**, each with unique strengths suited to specific types of analysis.

### Vector Data Structure

The **vector data model** uses geometric shapes—points, lines, and polygons—to represent geographic features. **Points** represent single locations (X, Y coordinates), such as the location of wells, schools, or streetlights. **Lines** (or polylines) are sequences of connected points used to represent linear features like roads, rivers, or pipelines. **Polygons** are closed loops formed by connecting lines, representing areas with defined boundaries such as lakes, park boundaries, or city limits.

**Topology** is crucial in vector data, maintaining relationships like connectivity (how features are connected), adjacency (what is next to what), and containment (what is inside what). This is particularly important for network analysis, such as traffic flow or water supply systems. **Advantages of the vector model** include precise representation of boundaries, efficient storage for discrete features, and support for topology-based analysis. However, its **disadvantages** are a more complex structure and less efficiency for representing continuous data like elevation or temperature.

### Raster Data Structure

The **raster model** represents space as a grid of square cells or pixels, with each cell holding a value representing information like elevation, land use, temperature, or rainfall intensity. **Raster resolution** is defined by cell size (e.g., 10x10 meters); smaller cells mean higher resolution and more detail, but also larger file sizes.

**Examples of raster data** include satellite imagery, Digital Elevation Models (DEMs), and soil moisture data. The **advantages of the raster model** are its simple structure, ideal for continuous data, and compatibility with image processing techniques. Its **disadvantages** include large file sizes, less accurate boundaries, and the requirement for resampling when combining layers of different resolutions.

### Attribute Data

**Attribute data** is non-spatial information describing the properties of spatial features. It's often stored in tables and linked to spatial data via a unique identifier. For example, a layer of cities might have an attribute table with columns for City\_ID, Name, Population, and State, where each row corresponds to a city and each column provides a descriptive attribute.

**Types of attribute data** include: **Nominal** (names, categories like "forest" or "desert"), **Ordinal**

# Structures And Strategies An Introduc

**Kraft Karl August Eduard Friedrich  
Hohenlohe-Ingelfingen (Prinz zu)**

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**Corporate Strategies in Recession and Recovery (Routledge Revivals)** Richard Whittington,2014-06-03 First published in 1989 this book is based on detailed comparative case studies of eight firms responses to the recession of the early 1980s the worst crisis for British manufacturing in the post war period Following these companies progress from 1979 to 1985 Whittington examines the various recession strategies they adopted and the consequences of these for management change and financial performance in the recovery Drawing on the Realist social theory of Roy Bhaskar Whittington argues that the class gender generation and ethnicity of the decision makers involved in the eight case studies collectively made an impact on their strategic choices This is a timely and practical reissue which will be of value to students managers and academics concerned with strategic management developments in organizational theory and the current economic climate

**Building Strategic Skills for Better Health** Michael R. Fraser,Brian C. Castrucci,2023-11 Building Strategic Skills for Better Health offers public health professionals a dynamic guide for implementing and developing leadership management and advocacy skills for effective public health practice *A Critical Introduction to Sport Psychology* Aidan Moran,John Toner,2017-02-24 The new third edition of A Critical Introduction to Sport Psychology is the only textbook in the field that provides a detailed overview of key theories concepts and findings within the discipline of sport psychology as well as a critical perspective that examines and challenges these core foundations Fully revised and updated the new edition covers key research findings affecting both participation and performance in sport including topics such as motivation anxiety emotional coping concentration mental imagery expertise and team cohesion In addition the book includes a range of helpful features that bring the science to life including critical thinking exercises suggestions for student projects and new In the spotlight boxes that highlight key advances in theory or practice A comprehensive glossary is also included whilst a final chapter examines some new horizons in sport psychology including embodied cognition and socio cultural perspectives Sport is played with the body but often won in the mind that is the theory A Critical Introduction to Sport Psychology is the definitive textbook for anyone wishing to engage critically with this fascinating idea **The New Emerging Market**

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game Amitava Chattopadhyay is the L Oreal Chaired Professor of Marketing Innovation and Creativity at INSEAD Rajeev Batra is the S S Kresge Professor of Marketing at the Ross School of Business at the University of Michigan Aysegul Ozsomer is associate professor of Marketing at Ko University Istanbul Turkey   **Corporate Social Capital and Liability** Roger Th.A.J. Leenders,Shaul M. Gabbay,2013-03-09 In studies of inter organizational relations IOR s there is a tendency to look at dyads of firms and to consider networks as aggregates of such dyads But there are several roles for a third party a go between This chapter looks at a go between not in the sense of a middleman who intermediates in existing production or trade such as an agent wholesaler retailer and not in the sense of an entrepreneur who intermediates in the realization of new potential in connecting supply and demand It looks at a go between in the sense of a relationship counsellor for the development and maintenance of social capital providing support in setting up adapting and ending cooperative relations between others Or in yet different terms to help in the embedding of relations in Granovetter's 1985 sense Uzzi 1997a Such roles may be performed by middlemen or entrepreneurs but also by specialized agents who do not play a direct role in linking stages in a chain of production and distribution as middlemen and entrepreneurs typically do Indeed some of the roles require an independence that is served by not having a direct stake in the relations that need to be developed I propose that the analysis yields a perspective for looking at the roles of trade and industry associations in European business systems and of banks and trading houses in Japanese enterprise groups Kigyo Shudan   *Work in Progress* Jackie Gerstein,2000

**Structural Overlay Strategies for Jointed Concrete Pavements** Walter P. Kilaras,1990 A major field study and evaluation has been conducted into the effectiveness of three structural overlay types for portland cement concrete PCC pavements These include sawing and sealing asphalt concrete AC overlays of PCC pavements cracking and sealing PCC pavements prior to AC overlay and constructing a thin bonded PCC overlay on top of the existing PCC pavement Condition surveys deflection testing and roughness measurements were performed on a total of 55 sections The performance of these sections was evaluated and the effectiveness of each overlay type analyzed   **Introduction to the History and Structure of Nigerian Economy** Ajidani Moses Sabo,Oseshi B. O. Igwo,2007   **Environmental Hydrology** Andy D. Ward,Stanley W. Trimble,Suzette R. Burckhard,John G. Lyon,2015-09-17 The late Professor Reds Wolman in his Foreword to the award winning second edition said This is not your ordinary textbook Environmental Hydrology is indeed a textbook but five elements often found separately combine here in one text to make it different It is eclectic practical in places a handbook a guide to fieldwork engagingly personal   **Governing the White House** Charles Eliot Walcott,Karen Marie Hult,1995 Charles Walcott and Karen Hult maintain that the organization of the White House influences presidential performance much more than commonly thought and that organization theory is an essential tool for understanding that influence Their book offers the first systematic application of organizational governance theory to the structures and operations of the White House Office Using organizational theory to analyze what at times has been a rather ad hoc and disorganized office might

seem quixotic After all the White House Office exists within a turbulent political environment that encourages expedient decision making And every four to eight years it must be reinvented by presidents who have their own theories and preferences about how to organize a staff to serve their policy needs But Walcott and Hult argue that White House staffs are not simply puppets of presidential preference and style Yes staff structures evolve primarily from presidents strategic responses to external demands But those structures in turn significantly influence how the executive branch perceives and responds to further demands The first part of their book lays out the theoretical argument The second examines White House outreach congressional liaison press relations personnel selection executive branch oversight and interest group and intergovernmental liaison The third focuses on White House handling of policy development and implementation The fourth analyzes staff structures that facilitate the operation of the presidency itself presidential writing and scheduling staff management and cabinet coordination The book concludes by identifying general patterns in the emergency nature and stability of governance structures in the White House Original and instructive Governing the White House provides a much needed primer on the inner workings of the White House staff and will be an essential volume for anyone studying the presidency

**Empowering the White House** Karen Marie Hult,Charles Eliot Walcott,2004 On the surface the new president seems to inherit an empty house Hugh Heclo a recognized expert on American democratic institutions has noted In fact he enters an office already shaped and crowded by other people s desires Empowering the White House examines how Richard Nixon entered that crowded Oval Office in 1969 yet managed to change it in a way that augmented the power of the presidency and continues to influence into the twenty first century how his successors have governed Nixon s White House is perhaps best remembered for the growth in the size of the staff which operated under the supposed iron fist of H R Haldeman But more important than size and management style to the character of the Nixon White House were the assigned tasks complexity and dynamics of the burgeoning staff Faced with hostile majorities in Congress and executive branch careerists assumed to be committed to a Democratic agenda Nixon sought to control his political fate by engaging more actively than earlier presidents in public relations and the mobilization of support At the command and under the control of the Oval Office the staff carried out assignments designed to fulfill Nixon s aims This theoretically informed and well researched study explains how Nixon changed and expanded the institutionalized presidency and how that affected the Ford and Carter administrations Nixon ushered in a new stage in the modern presidency by organizing and using his increasingly complex staff in new ways that have persisted beyond the 1970s to this day To a greater degree than any predecessor Nixon systematized outreach legal advice and policy formulation His White House staffing then has come to be regarded as a standard model that influences incoming presidents regardless of party affiliation Leavening this organizational study are revealing accounts of how the Nixon Ford and Carter staffs operated behind the scenes in the West Wing Anyone needing to know how the White House worked during those presidencies or how it has worked since will find this book invaluable

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**Environmental Hydrology, Second Edition** Andy D. Ward,Stanley W. Trimble,2003-12-18 The technological advances of recent years include the emergence of new remote sensing and geographic information systems that are invaluable for the study of wetlands agricultural land and land use change Students hydrologists and environmental engineers are searching for a comprehensive hydrogeologic overview that supplements information on hydrologic processes with data on these new information technology tools Environmental Hydrology Second Edition builds upon the foundation of the bestselling first edition by providing a qualitative understanding of hydrologic processes while introducing new methods for quantifying hydrologic parameters and processes Written by authors with extensive multidisciplinary experience the text first discusses the components of the hydrologic cycle then follows with chapters on precipitation stream processes human impacts new information system applications and numerous other methods and strategies By updating this thorough text with the newest analytical tools and measurement methodologies in the field the authors provide an ideal reference for students and professionals in environmental science hydrology soil science geology ecological engineering and countless other environmental fields

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