

## **Building Geodatabases(10.0)**

### **Introduction to the geodatabase**

- Types of geodatabases
- Geodatabase elements
- Geodatabase tables in a database management system (DBMS)

### **Attribute validation rules**

- Subtypes and domains
- Creating subtypes and domains
- Editing with subtypes and domains in ArcMap
- Coded value domains versus range domains
- Subtypes and relationship rules

### **Relationship classes**

- Creating relationship classes
- Setting relationship class properties
- Using relationships in ArcMap
- Relationship rules
- Validation
- Simple versus composite relationships

### **Annotation**

- Creating, editing, and managing annotation features

### **Geodatabase topology**

- Topology management
- Building a topology
- Setting the properties of a topology
- Setting appropriate topological rules
- Fixing topological errors
- Editing topological data

### **Geometric networks**

- Creating and editing geometric networks
- Performing analysis
- Setting and using connectivity rules

### **Building a schema**

- Different ways to define a geodatabase schema
- Creating tables, feature classes, and feature datasets

### **XML data interchange**

- Understanding XML schemas of the geodatabase



Exporting geodatabase contents to XML

Importing an XML file to define the schema

**Vector data**

Loading data from shapefiles, CAD files, coverages, and Excel spreadsheets

ArcGIS vector data loading tools

**Raster data**

Storing raster datasets, raster catalogs, and raster attributes