Spatial System Design

Methodology of system design and system construction, schematic system architecture.
Building strategies, analysis and function planning.
Physical design: tables, charts, functions.
System implementation, documentation, deliverance and monitoring.
Finding appropriate data sources, data parameterization, critical analysis and synthesis of data sources.
Advanced use of ArcGIS: spatial queries (is within, overlap, intersect, contains, near to, etc), attribute queries, spatial queries, spatial data analysis: buffer zones, overlay.
Map conversions to different projection systems.
Joint management of vector and raster data.
Editing maps: editing tools and complex spatial editing operations (join, modify, merge by geometry, attributes by merge) in Arc Map.
Linking external data to map projects: geocoding.
Construction and use of address register, address based geocoding.
Methods of map finishing and map publishing.
Consultation.

Literature:
ESRI: Building Spatial Databases

Suggested literature:
Modeling Our World: The ESRI Guide to Geodatabase Concepts Paperback, by Michael Zeiler, ESRI Press, 2010