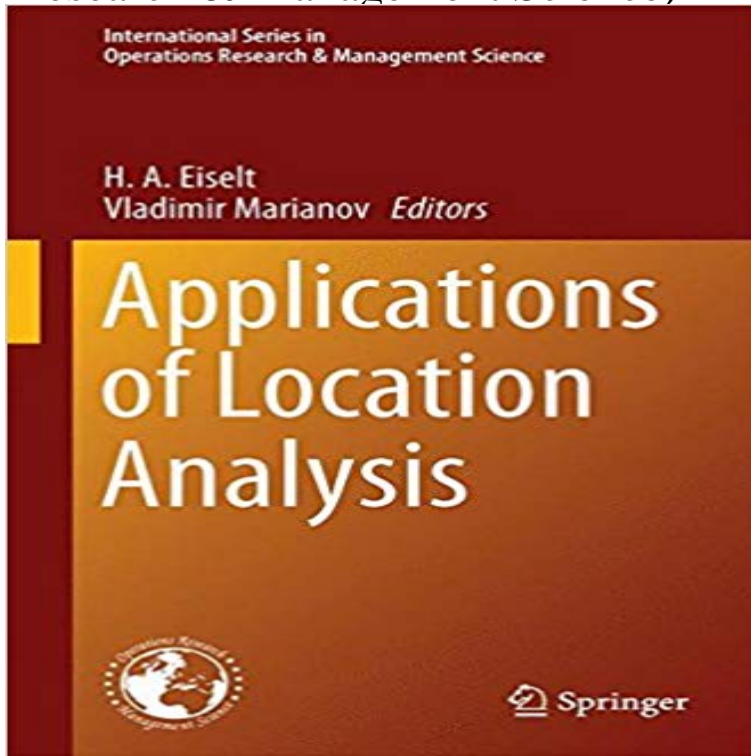


Applications of Location Analysis (International Series in Operations Research & Management Science)



This book, companion to Foundations of Location Analysis (Springer, 2011), highlights some of the applications of location analysis within the spheres of businesses, those that deal with public services and applications that deal with law enforcement and first responders. While the Foundations book reviewed the theory and first contributions, this book describes how different location techniques have been used to solve real problems. Since many real problems comprise multiple objectives, in this book there is more presence of tools from multicriteria decision making and multiple-objective optimization. The section on business applications looks at such problems as locating bank branches, the potential location of a logistics park, sustainable forest management and layout problems in a hospital, a much more difficult type of problem than mere location problems. The section on public services presents chapters on the design of habitats for wildlife, control of forest fires, the location of intelligent sensors along highways for timely emergency response, locating breast cancer screening centers, an economic analysis for the locations of post offices and school location. The final section of the book includes chapters on the well-known problem of locating fire stations, a model for the location of sensors for travel time information, the problem of police districting, locations of jails, location of Coast Guard vessels and finally, a survey of military applications of location analysis throughout different periods of recent history.

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