

Handbook of Transportation Engineering Volume I & Volume II, Second Edition (McGraw-Hill Handbook)

By Myer Kutz

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The definitive transportation engineering resource?fully revised and updated

The two-volume *Handbook of Transportation Engineering*, Second Edition offers practical, comprehensive coverage of the entire transportation engineering field. Featuring 18 new chapters and contributions from nearly 70 leading experts, this authoritative work discusses all types of transportation systems?freight, passenger, air, rail, road, marine, and pipeline?and provides problem-solving engineering, planning, and design tools and techniques with examples of successful applications. Volume I focuses on transportation networks and systems, operations, and economics. Volume II focuses on applications in automobile and non-automobile transportation, and on safety and environmental issues.

Volume I covers:

- National transportation networks and inter-modal systems
- Transportation network planning: theoretical notions
- Reliability of travel times and robustness of transport networks
- Transportation systems modeling and evaluation
- Software systems and simulation for transportation applications
- Applications of GIS in transportation
- Travel demand forecasting
- Transportation and land use
- Sustainable transportation practice
- Transportation planning and modeling
- Transportation economics
- Innovative information technology applications in public transportation
- Parking management
- Trucking operations
- The economics of railroad operations: resurgence of a declining industry
- Airline management and operations
- The marine transportation system
- Global logistics
- Freight transportation planning
- Management of transportation organizations

Volume II covers:

- Traffic engineering analysis
- Traffic origin-destination estimation
- Traffic congestion
- Highway capacity
- Traffic control systems: freeway management and communications

- Traffic signals
- Highway sign visibility
- Transportation lighting
- Geometric design of streets and highways
- Intersection and interchange design
- Pavement engineering: flexible and rigid pavements
- Pavement testing and evaluation
- Bridge engineering
- Tunnel engineering
- Pedestrians
- Bicycle transportation
- Spectrum of automated guideway transit (AGT) and its applications
- Railway vehicle engineering
- Railway track design
- Improvement of railroad yard operations
- Modern aircraft design techniques
- Airport design
- Air traffic control systems design
- Ship design
- Pipeline engineering
- Traffic safety
- Transportation hazards
- Hazardous materials transportation
- Incident management
- Network security and survivability
- Optimization of emergency evacuation plans
- Transportation noise issues
- Air quality issues in transportation
- Transportation and climate change

Handbook of Transportation Engineering Volume I & Volume II, Second Edition (McGraw-Hill Handbook) By Myer Kutz Bibliography

- Sales Rank: #3205608 in Books
- Published on: 2011-04-15
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 3.55" w x 7.00" l, .0 pounds
- Binding: Hardcover
- 2 pages



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Editorial Review

About the Author

Myer Kutz is President of Myer Kutz Associates, Inc., a publishing and information services consulting firm, and editor of number successful handbooks including *Standard Handbook of Biomedical Engineering Design*.

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