



Handbook of Transportation Engineering Volume II, 2e

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 II focuses on applications in automobile and non-automobile transportation, and on safety and environmental issues.

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

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- Sales Rank: #2503336 in eBooks
- Published on: 2011-03-08
- Released on: 2011-03-08
- Format: Kindle eBook

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Editorial Review

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Myer Kutz is President of Myer Kutz Associates, Inc., a publishing and information services consulting firm. He is the editor of numerous books, including *Biomedical Engineering and Design Handbook*, Second Edition.

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