



Bridge Engineering: Design, Rehabilitation, and Maintenance of Modern Highway Bridges

Demetrios E. Tonnias

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Design, rehabilitate, and maintain modern highway bridges. From steel and reinforced concrete design, to highway layout and basic geometrics, to geotechnical engineering and hydraulics, Demetrios E. Tonia's *Bridge Engineering: Design, Rehabilitation, and Maintenance of Modern Highway Bridges* fully integrates the resources you need to master the entire bridge-design process. Written with unusual clarity--and packed with timely design examples and case studies plus eye-opening sidebars and graphics--it shows you how to: understand bridge structures, functions, types, and applications; design superstructures and substructures for maximum maintainability; design highway components--approach pavements and slabs, structure geometrics and elevations, roadway alignments, and more; kick off the project--from funding to site surveying and coring; manage the design process--contract documents, reports, plans, client interactions, and more; manage the bridge itself--from creating a structure inventory to extending GIS and CADD functionality.

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