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NAE Grand Challenges For Engineering - Restore and Improve Urban InfrastructurePublic Infrastructure: McGraw-Hill Education, 2013 (Book Authors: Uddin, Hudson, Haas) *The Wonders of the Microscopic World Our Spooky Universe with Paul Sutter Engineering The City How Infrastructure* Engineering the City tells the fascinating story of infrastructure as it developed through history along with the growth of cities. Experiments, games, and construction diagrams show how these structures are built, how they work, and how they affect the environment of the city and the land outside it.

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Engineering the City: How Infrastructure Works by Matthys Levy

Using hundreds of archival documents and primary sources, Engineering the Eternal City explores the processes and people involved in these infrastructure projects—sewers, bridge repair, flood prevention, aqueduct construction, the building of new, straight streets, and even the relocation of immensely heavy ancient Egyptian obelisks that Roman emperors had carried to the city centuries before.

Engineering the Eternal City: Infrastructure, Topography ...

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Infrastructure is the very bedrock of our global society and environment, enabling the sustainable functionality of households and firms. From the roads which enable people to travel and commute, to water and energy systems that support quality of life and public health, infrastructure plays a crucial role in peoples' lives.

Infrastructure - Wikipedia

A well-identified Grand Challenge in Civil/Structural Engineering is to enhance the resiliency of contemporary engineering structures and infrastructure networks exposed to natural and man-made hazards and to improve sustainability in construction, operation, and decommissioning of structured facilities.

How does a city obtain water, gas, and electricity? Where do these services come from? How are they transported? The answer is infrastructure, or the inner, and sometimes invisible, workings of the city. Roads, railroads, bridges, telephone wires, and power lines are visible elements of the infrastructure; sewers, plumbing pipes, wires, tunnels, cables, and sometimes rails are usually buried underground or hidden behind walls. Engineering the City tells the fascinating story of infrastructure as it developed through history along with the growth of cities. Experiments, games, and construction diagrams show how these structures are built, how they work, and how they affect the environment of the city and the land outside it.

Explains how cities obtain water, gas, and electricity and how these infrastructure systems developed along with the cities themselves; and provides experiments, games, and construction diagrams for interactive learning.

Introduction: Rome: portrait of the late sixteenth-century city -- Troubled waters: the Tiber River -- The streets and sewers of Rome -- Repairing the Acqua Vergine: conflict and process -- Contested infrastructure -- Roman topography and images of the city -- Maps, guidebooks, and the world of print -- Reforming the streets -- Engineering spectacle and urban reality -- Conclusion: a city in transition

As more factors, perspectives, and metrics are incorporated into the planning and building process, the roles of engineers and designers are increasingly being fused together. Sustainable Infrastructure explores this trend with in-depth look at sustainable engineering practices in an urban design as it involves watershed master-planning, green building, optimizing water reuse, reclaiming urban spaces, green streets initiatives, and sustainable master-planning. This complete guide provides guidance on the role creative thinking and collaborative team-building play in meeting solutions needed to affect a sustainable transformation of the built environment.

Continually increasing demands on infrastructures mean that maintenance and renewal require timely, appropriate action that maximizes benefits while minimizing cost. To be as well informed as possible, decision-makers must have an optimal understanding of an infrastructure's condition—what it is now, and what it is expected to be in the future. Written by two highly respected engineers, the first volume, Infrastructure Health in Civil Engineering: Theory and Components, integrates the decision making concept into theoretical and practical issues. It includes: An overview of the infrastructure health in civil engineering (IHCE) and associated theories In-depth description of the four components of SHCE: measurements, structural identification, damage identification, and decision making Discussion of how IHCE and asset management are applied An exploration of infrastructure health management Built to correspond to the ideas presented in its companion volume, Applications and Management, this is an invaluable guide to optimized, cost-saving methods that will help readers meet safety specifications for new projects, as well as aging infrastructures at high risk for failure.

Introduction to Infrastructure: An Introduction to Civil and Environmental Engineering breaks new ground in preparing civil and environmental engineers to meet the challenges of the 21st century. The authors use the infrastructure that is all around us to introduce students to civil and environmental engineering, demonstrating how all the parts of civil and environmental engineering are interrelated to help students see the "big picture" in the first or second year of the curriculum. Students learn not only the what of the infrastructure, but also the how and the why of the infrastructure. Readers learn the infrastructure is a system of interrelated physical components, and how those components affect, and are affected by, society, politics, economics, and the environment. Studying infrastructure allows educators and students to develop a valuable link between fundamental knowledge and the ability to apply that knowledge, so students may translate their knowledge to new contexts. The authors' implementation of modern learning pedagogy (learning objectives, concrete examples and cases, and hundreds of photos and illustrations), and chapters that map well to the ABET accreditation requirements AND the ASCE Civil Engineering Body of Knowledge 2nd edition (with recommendations for using this text in a 1, 2, or 3 hour course) make this text a key part of any civil and/or environmental engineering curriculum.

The Spotter's Guide to Urban Engineering is an exciting guide to the technology that underpins modern life. Richly illustrated, it celebrates the wonders of science, engineering and technology in the modern world. Each chapter explores the developments and various engineering features and structures, detailing what they are, what they do, how they do it, and, most importantly, how to identify them.

Bringing together leading researchers from geography, political science, sociology, public policy and technology studies, Disrupted Cities exposes the politics of well-known disruptions such as devastation of New Orleans in 2005, the global SARS outbreak in 2002-3, and the great power collapse in the North Eastern US in 2003. But the book also excavates the politics of more hidden disruptions: the clogging of city sewers with fat; the day-to-day infrastructural collapses which dominate urban life in much of the global south; the deliberate devastation of urban infrastructure by state militaries; and the ways in which alleged threats of infrastructural disruption have been used to radically reorganize cities as part of the "war on terror". Accessible, topical and state-of-the art, Disrupted Cities will be required reading for anyone interested in the intersections of technology, security and urban life as we plunge headlong into this quintessentially urban century. The book's blend of cutting-edge theory with visceral events means that it will be particularly useful for illuminating urban courses within geography, sociology, planning, anthropology, political science, public policy, architecture and technology studies.

This is a practical guide to delivering green infrastructure from the ground up and bringing nature in to the built environment. Exploring the process of delivery through an array of design approaches and case studies, it demystifies the concept and provides the tools for practical implementation - highlighting the challenges and opportunities on both small and large projects.

This volume contains the papers presented at IALCCE2016, the fifth International Symposium on Life-Cycle Civil Engineering (IALCCE2016), to be held in Delft, The Netherlands, October 16-19, 2016. It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R. Khan lecture, keynote lectures, and technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools. The aim of the editors is to provide a valuable source for anyone interested in life-cycle of civil infrastructure systems, including students, researchers and practitioners from all areas of engineering and industry.

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