

Midas Civil Cable Stayed Bridge

Computational Analysis and Design of Bridge Structures
Transforming the Future of Infrastructure Through Smarter Information
Black Edge
Guide to Stability Design Criteria for Metal Structures
ICE Manual of Bridge Engineering
Emerging Trends in Civil Engineering
LRFD Guide Specifications for the Design of Pedestrian Bridges
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Bridge Engineering
2018 International Conference on Virtual Reality and Intelligent Systems (ICVRIS)
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Green Building, Environment, Energy and Civil Engineering
Cable Supported Bridges
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Prototype Building Structures
Dynamics of Civil Structures, Volume 2
Racecar
Techno-Societal 2016

Computational Analysis and Design of Bridge Structures

Provides a comprehensive guide to the analysis and design of building structures worldwide. This book presents a range of analytical methods in relation to load-time criteria, dynamic material properties and damage assessment vis-a-vis the scenario of prototype structures and their components.

Transforming the Future of Infrastructure Through Smarter Information

Up-to-date coverage of bridge design and analysis—revised to reflect the fifth edition of the AASHTO LRFD specifications Design of Highway Bridges, Third Edition offers detailed coverage of engineering basics for the design of short- and medium-span bridges. Revised to conform with the latest fifth edition of the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, it is an excellent engineering resource for both professionals and students. This updated edition has been reorganized throughout, spreading the material into twenty shorter, more focused chapters that make information even easier to find and navigate. It also features: Expanded coverage of computer modeling, calibration of service limit states, rigid method system analysis, and concrete shear Information on key bridge types, selection principles, and aesthetic issues Dozens of worked problems that allow techniques to be applied to real-world problems and design specifications A new color insert of bridge photographs, including examples of historical and aesthetic significance New coverage of the "green" aspects of recycled steel Selected references for further study From gaining a quick familiarity with the AASHTO LRFD specifications to seeking broader guidance on highway bridge design—Design of Highway Bridges is the one-stop,

readyreference that puts information at your fingertips, while also serving as an excellent study guide and reference for the U.S. Professional Engineering Examination.

Black Edge

Imagine you woke up one morning to find everything created by engineers had disappeared. What would you see? No cars, no houses; no phones, bridges or roads. No tunnels under tidal rivers, no soaring skyscrapers. The impact that engineering has had on the human experience is undeniable, but it is also often invisible. In *BUILT*, structural engineer Roma Agrawal takes a unique look at how construction has evolved from the mud huts of our ancestors to skyscrapers of steel that reach hundreds of metres into the sky. She unearths how engineers have tunneled through kilometres of solid mountains; how they've bridged across the widest and deepest of rivers, and tamed Nature's precious – and elusive – water resources. She tells vivid tales of the visionaries who created the groundbreaking materials in the Pantheon's record-holding concrete dome and the frame of the record-breaking Eiffel Tower. Through the lens of an engineer, Roma examines tragedies like the collapse of the Quebec Bridge, highlighting the precarious task of ensuring people's safety they hold at every step. With colourful stories of her life-long fascination with buildings – and her own hand-drawn illustrations – Roma reveals the extraordinary secret lives of structures.

Guide to Stability Design Criteria for Metal Structures

This proceedings volume contains select Green Building, Materials and Civil Engineering related papers from the 2016 International Conference on Green Building, Materials and Civil Engineering (GBMCE2016) which was held in Hong Kong, P.R. China, April 17-18, 2016. This volume of proceedings aims to provide a platform for researchers, engineers, academics as well as industrial professionals from all over the world to present their research results and development activities in the fields of Energy, Environment and Civil Engineering.

ICE Manual of Bridge Engineering

Emerging Trends in Civil Engineering

The definitive guide to stability design criteria, fully updated and incorporating current research Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council, the *Guide to Stability Design Criteria for Metal Structures* is often described as an invaluable reference for practicing structural engineers and researchers. For generations of engineers and architects, the Guide has served as the definitive work on designing steel and aluminum structures for stability. Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research, this Sixth Edition brings this foundational work in line with current practice and research. The Sixth Edition incorporates a decade of progress in the field since the previous edition, with new features including: Updated chapters on

beams, beam-columns, bracing, plates, box girders, and curved girders. Significantly revised chapters on columns, plates, composite columns and structural systems, frame stability, and arches Fully rewritten chapters on thin-walled (cold-formed) metal structural members, stability under seismic loading, and stability analysis by finite element methods State-of-the-art coverage of many topics such as shear walls, concrete filled tubes, direct strength member design method, behavior of arches, direct analysis method, structural integrity and disproportionate collapse resistance, and inelastic seismic performance and design recommendations for various moment-resistant and braced steel frames Complete with over 350 illustrations, plus references and technical memoranda, the Guide to Stability Design Criteria for Metal Structures, Sixth Edition offers detailed guidance and background on design specifications, codes, and standards worldwide.

LRFD Guide Specifications for the Design of Pedestrian Bridges

Bridge Design & Engineering

This volume comprises a collection of papers which were subjected to strict peer-review by 2 to 4 expert referees. It aims to present the latest advances in, and applications of, structural engineering, bridge engineering, tunnel, subway and underground facilities, seismic engineering, environment-friendly construction and development, monitoring and control of structures, structural rehabilitation, retrofitting and strengthening, reliability and durability of structures, computational mechanics, construction technology, etc. This will be essential reading matter for those involved in public works, at every level.

Risk-Based Bridge Engineering

NEW YORK TIMES BESTSELLER • “An essential exposé of our times—a work that reveals the deep rot in our financial system . . . Everyone should read this book.”—David Grann, author of Killers of the Flower Moon ONE OF THE BEST BOOKS OF THE YEAR—The New York Times and The Economist • Finalist for the New York Public Library’s Helen Bernstein Book Award for Excellence in Journalism The hedge fund industry changed Wall Street. Its pioneers didn’t lay railroads, build factories, or invent new technologies. Rather, they made their billions through financial speculation, by placing bets in the market that turned out to be right more often than not. In hedge fund circles, Steven A. Cohen was revered as one of the greatest traders who ever lived. But that image was shattered when his fund, SAC Capital, became the target of a seven-year government investigation. Prosecutors labeled SAC a “magnet for market cheaters” whose culture encouraged the relentless pursuit of “edge”—and even “black edge,” which is inside information—and the firm was ultimately indicted and pleaded guilty to charges related to a vast insider trading scheme. Cohen, himself, however, was never charged. Black Edge is a riveting legal thriller that raises urgent questions about the power and wealth of those who sit at the pinnacle of high finance and how they have reshaped the economy. Longlisted for the Andrew Carnegie Medal for Excellence in Nonfiction and the Financial Times and McKinsey Business Book of the Year Award “A modern version of Moby-Dick, with wiretaps rather than

harpoons.”—Jennifer Senior, *The New York Times* “If you liked James B. Stewart’s *Den of Thieves*, Sheelah Kolhatkar’s thrilling *Black Edge* should be next on your reading list.”—*The Wall Street Journal* “Excellent.”—*The Economist* “A true-life thriller with Shakespearian stakes . . . Her chilling account of a blighted industry is as mesmerizing as a human story as it is as a financial one.”—*Fortune* “A tour de force of groundbreaking reporting and brilliant storytelling.”—Jeffrey Toobin, *New York Times* bestselling author of *American Heiress*

Prestressed Concrete Bridges

The topics of (ICVRIS2018) which are CPS s field of interest Hardware B 1 Control structure and Microprogramming B 7 Integrated circuits B 9 Power Management Computer system organization C 2 Commulication networking and information technology C 4 Performance of system C 5 Computer System Implementation Software Software Engineering D 1 Programming Techniques D 2 Software Engineering Information Technology and System H 1 Model and principles H 4 Information technology and system applications Computing Methodologies I 2 Artificial intelligence I 5 Pattern Recognition I 6 Simulation modeling and visualization Computer Application J 6 Computer aided engineering J 7 Computers in other system J 8 Internet Applications J 9 Mobile Applications Learning Technologies N 6 Devices for learning Affective Computing O 2 Modeling human emotion O 5 Affective issues in enhancing machine robotic intelligence O 7 Technology & devices for affective computing O 8 Affective computing applicatio

The Disappearing Spoon

Advances in Civil Engineering and Architecture

Risk-based engineering is essential for the efficient asset management and safe operation of bridges. A risk-based asset management strategy couples risk management, standard work, reliability-based inspection and structural analysis, and condition-based maintenance to properly apply resources based on process criticality. This ensures that proper controls are put in place and reliability analysis is used to ensure continuous improvement. An effective risk-based management system includes an enterprise asset management or resource solution that properly catalogues asset attribute data, a functional hierarchy, criticality analysis, risk and failure analysis, control plans, reliability analysis and continuous improvement. Such efforts include periodic inspections, condition evaluations and prioritizing repairs accordingly. This book contains select papers that were presented at the 10th New York City Bridge Conference, held on August 26-27, 2019. The volume is a valuable contribution to the state-of-the-art in bridge engineering.

Multi-Span Large Bridges

This book presents the outcomes of the 2019 International Conference on Cyber Security Intelligence and Analytics (CSIA2019), an international conference dedicated to promoting novel theoretical and applied research advances in the

interdisciplinary field of cyber security, particularly focusing on threat intelligence, analytics, and countering cyber crime. The conference provides a forum for presenting and discussing innovative ideas, cutting-edge research findings, and novel techniques, methods and applications on all aspects of Cyber Security Intelligence and Analytics.

Beyond Failure

Handbook of International Bridge Engineering

Addresses key topic within bridge engineering, from history and aesthetics to design, construction and maintenance issues. This book is suitable for practicing civil and structural engineers in consulting firms and government agencies, bridge contractors, research institutes, and universities and colleges.

Law for Business and Personal Use

Norbert Delatte presents the circumstances of important failures that have had far-reaching impacts on civil engineering practice, organized around topics in the engineering curriculum.

Mechanics and Mechanical Engineering

Fourteen years on from its last edition, Cable Supported Bridges: Concept and Design, Third Edition, has been significantly updated with new material and brand new imagery throughout. Since the appearance of the second edition, the focus on the dynamic response of cable supported bridges has increased, and this development is recognised with two new chapters, covering bridge aerodynamics and other dynamic topics such as pedestrian-induced vibrations and bridge monitoring. This book concentrates on the synthesis of cable supported bridges, suspension as well as cable stayed, covering both design and construction aspects. The emphasis is on the conceptual design phase where the main features of the bridge will be determined. Based on comparative analyses with relatively simple mathematical expressions, the different structural forms are quantified and preliminary optimization demonstrated. This provides a first estimate on dimensions of the main load carrying elements to give in an initial input for mathematical computer models used in the detailed design phase. Key features: Describes evolution and trends within the design and construction of cable supported bridges Describes the response of structures to dynamic actions that have attracted growing attention in recent years Highlights features of the different structural components and their interaction in the entire structural system Presents simple mathematical expressions to give a first estimate on dimensions of the load carrying elements to be used in an initial computer input This comprehensive coverage of the design and construction of cable supported bridges provides an invaluable, tried and tested resource for academics and engineers.

Progress in Civil, Architectural and Hydraulic Engineering IV

This book is an essential purchase for all those involved in bridge construction and innovative building techniques, such as bridge owners, design offices, bridge consultants, and construction equipment suppliers.

Virtual Distortion Method

Explore the foundations of business law as well as the application of legal concepts to everyday life. LAW FOR BUSINESS AND PERSONAL USE, 19E, combines strong content and interactive technology with consistent, proven instruction to maintain student interest and support active learning. Coverage includes contracts, criminal law, environmental law, family law, and consumer protection. With more than 1,000 cases, LAW FOR BUSINESS AND PERSONAL USE, 19E, offers plenty of opportunities for case analysis and research. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Concrete Box-girder Bridges

The tension structures discussed in this book are predominantly roofing forms created from pre-stressed cable nets, cable trusses, and continuous membranes (fabric structures). A unique feature in their design is "form-finding" - an interactive process of defining the shape of a structure under tension. The book discusses the role of stable minimal surfaces (minimum energy forms occurring in natural objects, such as soap films) in finding optimal shapes of membrane and cable structures. The discussion of form-finding is extended to structural forms whose shape is supposedly known, such as suspension bridge cables.

Modern Steel Construction

This book presents recent advances in mechatronic and integrated monitoring and management systems with applications to architectural, archaeology survey, construction management and civil engineering. It consists of 16 chapters authored by recognized experts in a variety of fields including dynamics, signal processing, inverse modeling, robotics and automation, in particular, here applied to design and construction of civil structures and architectural survey, monitoring and maintenance of cultural heritage assets, structures and infrastructure. The book is organized in three main sections: "Robotics and Automation", "Digital Technologies for Cultural Heritage" and "Civil Structural Health Monitoring". Topics include image processing for automated visual inspection, fiber optical sensor technology, wireless sensor monitoring, bridge inspection and monitoring of tunnel infrastructures, design tools for construction engineering, smart cities. Direct and inverse modeling of multibody systems and robots contributes to the development of applications for civil engineering and smart cities. Digital technology and mechatronic systems changes the way of looking at restoration of historical and archeological sites, analysis, inspection, visualization, management systems and sensor network for Human-Machine Interfaces (HMI). Combined use of geographical information system (GIS), laser scanner, remote sensing, digital thermography and drones as integrated systems permits to highlight new frontier for building and infrastructure knowledge. The book offers a valuable reference

work for scientists, architects, engineers, researchers and practitioners in engineering and architecture since the integrated development of new technologies for the design and management of existing and new infrastructure may produce a new market of services and products for safe and economically optimized infrastructure management. Through the dissemination of advanced research developments in mechatronics and integrated management systems, the book promotes exchanges and collaborations among researchers of different disciplines. The book contributes to further advancements in the rapidly growing field of integration of robotic, automation and information technologies in the area of facilities and infrastructure management and construction processes.

Bridge Launching

Dynamics of Civil Structures, Volume 2: Proceedings of the 36th IMAC, A Conference and Exposition on Structural Dynamics, 2018, the second volume of nine from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures, including papers on: Modal Parameter Identification Dynamic Testing of Civil Structures Control of Human Induced Vibrations of Civil Structures Model Updating Damage Identification in Civil Infrastructure Bridge Dynamics Experimental Techniques for Civil Structures Hybrid Simulation of Civil Structures Vibration Control of Civil Structures System Identification of Civil Structures

Design of Highway Bridges

Steel, Concrete, and Composite Bridges

The International Conference on Civil, Architectural and Hydraulic Engineering series provides a forum for exchange of ideas and enhancing mutual understanding between scientists, engineers, policymakers and experts in these engineering fields. This book contains peer-reviewed contributions from many experts representing industry and academic es

Cyber Security Intelligence and Analytics

The International Conference on Smart Infrastructure and Construction (ICSIC) brings together world-leading academics and practitioners from the fields of infrastructure planning, asset management and sensing. Transforming the Future of Infrastructure through Smarter Information covers a wide range of topics of relevance to smart infrastructure and construction, attracting papers from academics and professionals working to develop smart solutions for design, delivery, operation and management of major infrastructure assets. The papers published in the Proceedings reflect the themes of the conference, which include: sensors and data analysis asset management cities and urban infrastructure. Smart infrastructure and construction is an emerging field of great potential, and Transforming the Future of Infrastructure through Smarter Information will be of interest to practitioners, asset owners and operators, consultants, contractors and

academics with an interest in the area."

How Was That Built?

This proceedings consists of 162 selected papers presented at the 2nd Annual International Conference on Mechanics and Mechanical Engineering (MME2015), which was successfully held in Chengdu, China between December 25–27, 2015. MME2015 is one of the key international conferences in the fields of mechanics, mechanical engineering. It offers a great opportunity to bring together researchers and scholars around the globe to deliver the latest innovative research and the most recent developments in the field of Mechanics and Mechanical Engineering. MME2015 received over 400 submissions from about 600 laboratories, colleges and famous institutes. All the submissions have undergone double blind reviewed to assure the quality, reliability and validity of the results presented. These papers are arranged into 6 main chapters according to their research fields. These are: 1) Applied Mechanics 2) Mechanical Engineering and Manufacturing Technology 3) Material Science and Material Engineering 4) Automation and Control Engineering 5) Electrical Engineering 6) System Modelling and Simulation. This proceedings will be invaluable to academics and professionals interested in Mechanics and Mechanical Engineering. Contents: Applied Mechanics Mechanical Engineering and Manufacturing Technology Material Science and Material Engineering Automation and Control Engineering Electrical Engineering System Modeling and Simulation Readership: Researchers and academic.

Bridge Engineering

Volume is indexed by Thomson Reuters CPCI-S (WoS). Collection of selected, peer reviewed papers from the 2013 2nd Global Conference on Civil, Structural and Environmental Engineering (GCCSEE 2013), September 28-29, 2013, Shenzhen, China. The 625 papers are grouped as follows: Chapter 1: Construction Materials; Chapter 2: Construction Technology; Chapter 3: Structural Engineering; Chapter 4: Geotechnical Engineering; Chapter 5: Bridge Engineering; Chapter 6: Road and Railway Engineering; Chapter 7: Geological Engineering; Chapter 8: Tunnel, Subway and Underground Facilities; Chapter 9: Seismic Engineering; Chapter 10: Fluid Engineering, Coastal Engineering, Hydrology and Water Resource Management; Chapter 11: Mining Engineering and Oil and Gas Well Development; Chapter 12: Heating, Gas Supply, Ventilation and Air Conditioning Works; Chapter 13: Data Processing and Measurement Technologies; Chapter 14: Traffic Engineering; Chapter 15: Disaster Prevention and Mitigation; Chapter 16: Computational Mechanics and Mathematical Model; Chapter 17: Environmental Materials; Chapter 18: Environmental Chemistry and Biology; Chapter 19: Environmental Safety and Health; Chapter 20: Environmental Analysis and Monitoring; Chapter 21: Environmental Restoration and Pollution Control; Chapter 22: Architectural Design and Its Theory; Chapter 23: Advanced Design and Planning Technologies; Chapter 24: Urban Planning and Design, Resource Utilization; Chapter 25: Project Management; Chapter 26: Engineering Management and Engineering Education; Chapter 27: Computer Application and Modeling

2018 International Conference on Virtual Reality and Intelligent Systems (ICVRIS)

This volume originates from the proceedings of a multidisciplinary conference, Techno-Societal 2016 in Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This back and forth process for local-global interaction will help in solving local problems by global approach and help in solving global problems by improving local conditions.

Tension Structures

The theory of virtual distortions provides an efficient tool which can be used to treat many problems that differ from the physical point of view. The objective of this book is to present a general concept of the Virtual Distortion Method with the necessary theoretical background and a variety of its applications to problems of structural analysis and design. The book is focussed more on theoretical aspects of the problems than on the practical design of structures. Nevertheless, a number of numerical algorithms discussed in the book has already been developed as a computational system capable to solve various problems of structural analysis.

Design of Bridges

Throughout the last decades, the increasing development of the urban metropolis and the need to establish fundamental infrastructure networks, promoted the development of important projects worldwide and several Multi-Span Large Bridges have been erected. Certainly, many more will be erected in the next decades. This international context undoubted

Crude Existence

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters? The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time.

*Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.

2018 International Conference on Engineering Simulation and Intelligent Control (ESAIC).

In 2006, a small unavailing university auto racing team began building a racecar that would challenge the best engineering schools in the world. With fewer people and resources than any of the top competitors, the only way they were going to win was to push the limit, go for broke, and hope for more than a little luck. By the time they got to the racetrack, they knew: In the fog of fierce competition, whether you win or lose, you learn the hardest lessons about engineering, teamwork, friendship, and yourself.

Green Building, Environment, Energy and Civil Engineering

Bridge Engineering: Classifications, Design Loading, and Analysis Methods begins with a clear and concise exposition of theory and practice of bridge engineering, design and planning, materials and construction, loads and load distribution, and deck systems. This is followed by chapters concerning applications for bridges, such as: Reinforced and Prestressed Concrete Bridges, Steel Bridges, Truss Bridges, Arch Bridges, Cable Stayed Bridges, Suspension Bridges, Bridge Piers, and Bridge Substructures. In addition, the book addresses issues commonly found in inspection, monitoring, repair, strengthening, and replacement of bridge structures. Includes easy to understand explanations for bridge classifications, design loading, analysis methods, and construction Provides an overview of international codes and standards Covers structural features of different types of bridges, including beam bridges, arch bridges, truss bridges, suspension bridges, and cable-stayed bridges Features step-by-step explanations of commonly used structural calculations along with worked out examples

Cable Supported Bridges

Prestressed concrete decks are commonly used for bridges with spans between 25m and 450m and provide economic, durable and aesthetic solutions in most situations where bridges are needed. Concrete remains the most common material for bridge construction around the world, and prestressed concrete is frequently the material of choice. Extensively illustrated throughout, this invaluable book brings together all aspects of designing prestressed concrete bridge decks into one comprehensive volume. The book clearly explains the principles behind both the design and construction of prestressed concrete bridges, illustrating the interaction between the two. It covers all the different types of deck arrangement and the construction techniques used, ranging from in-situ slabs and precast beams; segmental construction and launched bridges; and cable-stayed structures. Included throughout the book are many examples of the different types of prestressed concrete decks used, with the design aspects of each discussed along with the general analysis and design process. Detailed descriptions of the prestressing components and systems used are also included. Prestressed

Concrete Bridges is an essential reference book for both the experienced engineer and graduate who want to learn more about the subject.

Civil, Structural and Environmental Engineering

This book comprises select papers from the International Conference on Emerging Trends in Civil Engineering (ICETCE 2018). Latest research findings in different branches of civil engineering such as structural engineering, construction materials, geotechnical engineering, water resources engineering, environmental engineering, and transportation infrastructure are covered in this book. The book also gives an overview of emerging topics like smart materials and structures, green building technologies, and intelligent transportation system. The contents of this book will be beneficial for students, academicians, industrialists and researchers working in the field of civil engineering.

Mechatronics for Cultural Heritage and Civil Engineering

Prototype Building Structures

Gain Confidence in Modeling Techniques Used for Complicated Bridge Structures Bridge structures vary considerably in form, size, complexity, and importance. The methods for their computational analysis and design range from approximate to refined analyses, and rapidly improving computer technology has made the more refined and complex methods of ana

Dynamics of Civil Structures, Volume 2

After decades of civil war and instability, the African country of Angola is experiencing a spectacular economic boom thanks to its most valuable natural resource: oil. Focusing on the everyday realities of people living in the extraction zones, Reed explores the exclusion, degradation, and violence that are the fruits of petrocapi-talism in Angola.

Racecar

Techno-Societal 2016

This comprehensive and up-to-date reference work and resource book covers state-of-the-art and state-of-the-practice for bridge engineering worldwide. Countries covered include Canada and the United States in North America; Argentina and Brazil in South America; Bosnia, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Greece, Macedonia,

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