



## The IES Journal Part A: Civil & Structural Engineering

Official Journal of The Institution of Engineers, Singapore

EDITOR-IN-CHIEF:

**Wang Chien Ming**, National University of Singapore, Singapore

Volume 2, 2009, 4 issues per year  
ISSN Print 1937-3260, ISSN Online 1937-3279

**The IES Journal Part A: Civil & Structural Engineering** provides a forum for the publication and rapid dissemination of original research and developments in civil and structural engineering. Papers cover a wide range of structural, geotechnical, water resources, environmental, and infrastructure engineering, including mathematical formulations, novel methods and solutions in construction techniques, experimental investigations and practical applications. State-of-the-art surveys, technical notes and discussions offer a focused, vibrant and timely communication tool for researchers and consultants. Drawing on the international resources of the Institution, the Journal maintains an international outlook whilst having a strong focus on primary research and development works from Asia.

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NEW  
IN 2008



## International Journal of Mining, Reclamation and Environment

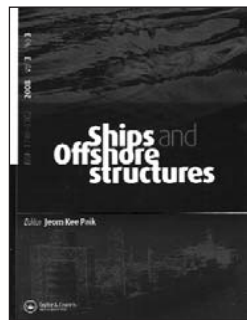
EDITOR-IN-CHIEF:

**Dr Raj K. Singhal**, Calgary, Canada

Volume 23, 2009, 4 issues per year  
ISSN Print 1748-0930, ISSN Online 1748-0949

The journal covers all aspects of mining and environmental technology relating to coal, oil sands, industrial minerals and metalliferous deposits. Environmental issues specially identified for coverage include: Environmental impact assessment and permitting; mining and processing technologies; waste management and waste minimization practices; mine site closure, decommissioning and reclamation; acid mine drainage. Mining issues to be covered include: Design of surface and underground mines (economics, geotechnical, production scheduling, ventilation); mine optimization and planning; mining geostatics, drilling and blasting technologies; material handling systems; mine equipment. The role of computers and micro-processor based technology are also covered. The editors will consider papers on other topics related to mining and environmental issues.

[www.tandf.co.uk/journals/nsme](http://www.tandf.co.uk/journals/nsme)



## Ships and Offshore Structures

EDITOR-IN-CHIEF:

**Jeom Kee Paik**, Pusan National University, South Korea

Volume 4, 2009, 4 issues per volume  
ISSN Print 1744-5302, ISSN Online 1754-212X

**Ships and Offshore Structures** is an international, peer-reviewed journal which provides an authoritative forum for publication and discussion of recent advances and future trends in all aspects of technology across the maritime industry.

The Journal covers the entire range of issues and technologies related to both ships (including merchant ships, war ships, polar ships etc.) and offshore structures (floating and fixed offshore platforms, offshore infrastructures, underwater vehicles etc.) with a strong emphasis on practical design, construction and operation.

The Journal is intended to bridge the gap between theoretical developments and practical applications for the benefit of academic researchers and practising engineers, as well as those working in related governmental, public policy and regulatory bodies.

[www.tandf.co.uk/journals/tsos](http://www.tandf.co.uk/journals/tsos)



## Urban Water Journal

EDITORS-IN-CHIEF:

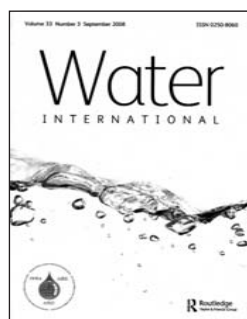
**David Butler**, University of Exeter, UK

**Cedo Maksimovic**, Imperial College London, UK

Volume 6, 2009, 6 issues per year  
ISSN Print 1573-062X, ISSN Online 1744-9006

**Urban Water Journal** provides a forum for the research and professional communities dealing with water-related and waterbased systems in the urban environment. Particular emphasis is placed on defining the practical outcomes of sustainable development and on documenting and analysing the mutual interrelationships and interactions between the individual water systems, urban water bodies and the environment.

[www.tandf.co.uk/journals/nurw](http://www.tandf.co.uk/journals/nurw)



## Water International

Official Journal of the International Water Resources Association

EDITOR-IN-CHIEF:

**James Nickum**, Asian Water and Resources Institute, Japan

Volume 34, 2009, 4 issues per year  
Print ISSN 0250-8060, ISSN Online 1941-1707

**Water International** is the official journal of the International Water Resources Association (IWRA), founded in 1972 to serve as an international gateway to the people, ideas and networks that are critical to the sustainable management of water resources around the world. **Water International's** articles, state-of-the-art reviews and technical notes are policy-relevant and aimed at communicating in-depth knowledge to a multidisciplinary and international community. **Water International** publishes both individual contributions and sets of papers on cutting edge issues.

[www.tandf.co.uk/journals/rwin](http://www.tandf.co.uk/journals/rwin)

# Books from Taylor & Francis Group

## Engineering Modelling and Analysis

**Martin Lambert, Andrew Metcalfe, David Walker and Michael Leonard**, all at the University of Adelaide, Australia

HB: ISBN 978-0-415-46961-6 Price: £85.00 / US\$180.00  
PB: ISBN 978-0-415-46962-3 Price: £29.99 / US\$59.00  
October 2008 • 234x156 • 432pp

Introducing engineering students to numerical analysis and computing, this book covers a range of topics suitable for the first three years of a four year undergraduate engineering degree. Taking a balanced approach to teaching computing and computer methods at the same time, it satisfies the need to be able to use computers (using both formal languages such as Fortran and other applications such as Matlab and Microsoft Excel), and the need to be able to solve realistic engineering problems.

**Selected Contents:** 1. Introduction to Engineering Modelling and Analysis 2. Introduction to Computing Tools 5. Fortran 90/95 8. Roots of Equations 11. Numerical Interpolation 13. Numerical Interpolation 16. Systems of Linear Equations 19. Numerical Solution of Ordinary Differential Equations 21. Finite Difference Modelling 27. Probability Distributions 33. Random Numbers 34. Monte Carlo 37. Spectral Analysis 41. Linear Regression and Correlation 42. Parameter Estimation 43. Assorted Topics 46. Solutions to Selected Problems



NEW

## Environmental Modelling An Uncertain Future?

**Keith Beven**, Lancaster University, UK

HB: ISBN 978-0-415-46302-7 Price: £90.00 / US\$190.00  
PB: ISBN 978-0-415-45759-0 Price: £29.99 / US\$59.00  
July 2008 • 246x174 • 304pp

Uncertainty in the predictions of science when applied to the environment is an issue of great current relevance in relation to the impacts of climate change, protecting against natural and man-made disasters, pollutant transport and sustainable resource management. However, it is often ignored both by scientists and decision makers, or interpreted as a conflict or disagreement between scientists. This is not necessarily the case, the scientists might well agree, but their predictions would still be uncertain and knowledge of that uncertainty might be important in decision making.

Environmental Modelling: an Uncertain Future? introduces students, scientists and decision makers to

- the different concepts and techniques of uncertainty estimation in environmental prediction;
- the philosophical background to different concepts of uncertainty;
- the constraint of uncertainties by the collection of observations and data assimilation in real-time forecasting; and
- techniques for decision making under uncertainty.

This book will be relevant to environmental modellers, practitioners and decision makers in hydrology, hydraulics, ecology, meteorology and oceanography, geomorphology, geochemistry, soil science, pollutant transport and climate change.

A companion website for the book can be found at [www.uncertain-future.org.uk](http://www.uncertain-future.org.uk)

**Selected Contents:** 1. How to Make Predictions 2. A Philosophical Diversion 3. Simulation with No Historical Data Available 4. Simulation with Historical Data Available 5. Forecasting the Near Future 6. Decision Making when Faced with Uncertainty 7. An Uncertain Future?



NEW

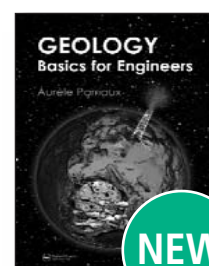
## Geology

### Basics for Engineers

**Aurele Parriaux**, EPFL - Federal Institute of Technology, Switzerland

PB: ISBN 978-0-415-46165-8 Price: £66.99 / US\$119.90  
September 2009 • 550pp

This undergraduate textbook presents the physical and chemical characteristics of the Earth, the nature and the properties of rocks and unconsolidated deposits/sediments, the action of water, how the earth is transformed by various phenomena at different scales of time and space. The book shows the engineer how to take geological conditions into account in his projects, and how to develop a wide range of natural resources in an intelligent way.



NEW

## Geotechnical Slope Analysis

**Robin Chowdhury and Phil Fentje**, University of Wollongong, Australia and **Gautam Bhattacharya**, Bengal Eng & Sci University, India

HB: ISBN 978-0-415-46974-6 Price: £90.00 / US\$139.95  
July 2009 • 500pp

Fully updated and extended version of Slope Analysis (1978) that uses a multi-disciplinary approach in understanding slope performance, instability mechanisms, modelling and analysis requirements and new techniques. Pays special attention to natural and man-made hazards, slope analysis and management and explores strategies and methods for landslide susceptibility, hazard and risk assessment.

## Handbook of Geotechnical Investigation and Design Tables

**Burt G. Look**, Connell Wagner Pty, Australia

PB: ISBN 978-0-415-43038-8 Price: £51.99 / US\$93.95  
April 2007 • 346pp

This practical handbook of properties for soils and rock contains the key issues relevant to geotechnical investigations, assessments and designs in common practice. The book is intended for graduate students and experienced geotechnical professionals who require a reference document to access key information. The book also provides a useful bridge between soil and rock mechanics theory and its application to practical engineering solutions.



## A Handbook of Tropical Residual Soil Engineering

**Bujang B.K. Huat**, University of Putra Malaysia, Malaysia

**David G. Toll**, University of Durham, UK

HB: ISBN 978-0-415-45731-6 Price: £114.00 / US\$179.95  
October 2009 • 750pp

The first complete reference on soil and foundation engineering in tropical areas. The handbook treats the complete range of aspects of tropical residual soils and engineering applications and includes experts' country-specific sections on characteristics, conditions, practical aspects and tables and charts with typical data.

## In situ Testing in Geomechanics

### The Main Tests

**Fernando Schnaid**, Federal University of Rio Grande do Sul, Brazil

HB: ISBN 978-0-415-43385-3 Price: £80.00 / US\$160.00  
PB: ISBN 978-0-415-43386-0 Price: £29.99 / US\$59.00  
October 2008 • 234x156 • 336pp

This book outlines the practice and theory of the five key tests used in site characterisation by Geomechanical and Environmental Engineers. These tests are:

- Standard Penetration Tests
- Cone Penetration Tests
- Vane Test
- Pressuremeter Tests
- Dilatometer Tests

This book is aimed at practising engineers although its practical angle will also appeal to Civil Engineering students in their 3rd and 4th years.

**Selected Contents** 1. Introduction 2. Standard Penetration Test (SPT) 3. Cone Piezocone Penetration Test (CPT) 4. Vane Test 5. Pressuremeter Test 6. Dilatometer Test 7. Case Studies



NEW

## Messina Strait Bridge

**F. Brancaleoni, G. Valensise, E. Vullo, G. Diana, E. Faccioli, G. Fiammenghi, I. Firth, N.J. Gimsing, M. Jamiolkowski, P. Sluska, and G. Solari**

HB: ISBN 978-0-415-46814-5 Price: £60.99 / US\$99.95  
April 2009 • 300pp

This book describes extensive studies, concepts and design carried out on the Messina Strait Bridge, from the early seventies up to the award of the detailed design and construction contract in 2006. It includes developments necessary to overcome the difficulties due to the environment and the challenges presented by the record length of 3,300m for the main suspended span.

## Mining and the Environment from Ore to Metal

**Karlheinz Spitz**, ERM - Environmental Resources Management, Australia and **John Trudinger**, Trudinger Consulting, Australia

HB: ISBN 978-0-415-46509-0 Price: £169.00 / US\$264.95  
PB: ISBN 978-0-415-46510-6 Price: £82.00 / US\$129.95  
December 2008 • 924pp

Practice-oriented text and reference book on the social and environmental issues pertaining to mining, with particular reference to developing countries. Illustrates how environmental impact assessment (Equator Principles) can integrate positively with the mining lifecycle. Wide coverage of issues, supported with many real-life case studies. Key reading for operators, environmental consultants, regulators, and students.

Supporting website: [www.miningandtheenvironment.com](http://www.miningandtheenvironment.com)



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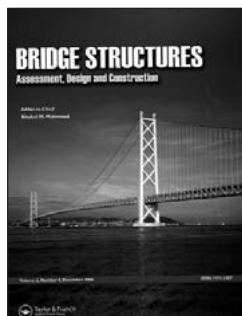
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## Bridge Structures: Assessment, Design and Construction

Endorsed by the Bridge Engineering Association

EDITOR-IN-CHIEF:  
**Khaled M. Mahmoud**, *Bridge Technology Consulting, USA*  
Volume 5, 2009, 4 issues per year  
ISSN Print 1573-2487, ISSN Online 1744-8999

**Bridge Structures: Assessment, Design and Construction** aims to present the transformation of theoretical knowledge into guidelines and specifications that are compliant with the technical constraint of bridge engineering design. Papers are solicited from researchers, designers, fabricators and contractors of significant bridge projects, covering a wide range of topics and interests to bridge engineers from all over the world.

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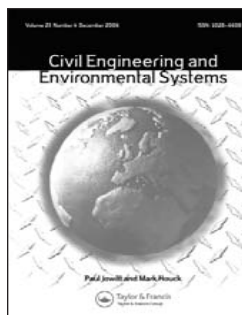
## Building Research & Information

EDITOR:  
**Richard Lorch**, *London, UK*

Volume 37, 2009, 6 issues per year  
ISSN Print 0961-3218, ISSN Online 1466-4321

**Building Research and Information (BRI)** is a leading international refereed journal publishing only articles of the highest quality that are original, cutting-edge, well-detailed research and of significance to the international community. The journal also publishes original information papers and innovative case studies of international significance. All papers undergo **BRI's** rigorous, highly selective double-blind refereeing procedures. In addition to a responsive mode for these submissions, the journal regularly commissions special issues on cross-cutting themes.

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## Civil Engineering and Environmental Systems

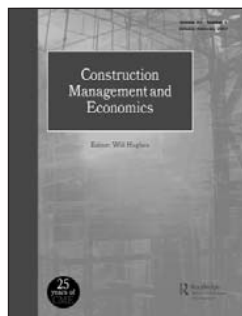
EDITOR-IN-CHIEF:  
**Paul W. Jowitt**, *Heriot-Watt University, UK*

Volume 26, 2009, 4 issues per year  
ISSN Print 1028-6608, ISSN Online 1029-0249

**Civil Engineering and Environmental Systems** is devoted to the discussion, dissemination and development of systems techniques and their underlying assumptions through the spectrum of civil engineering activity and environmental decision-making and management.

The Journal provides a comprehensive approach to the practical application and development of "hard" and "soft" systems methodologies and welcomes papers on engineering optimization, risk assessment and decision making, environmental policy and sustainable development, system identification, numerical simulation and qualitative modelling of complex systems, safety, and methods of modelling uncertainty. Attention is paid to conceptual issues as well as quantitative techniques.

[www.tandf.co.uk/journals/gcee](http://www.tandf.co.uk/journals/gcee)



## Construction Management and Economics

EDITOR-IN-CHIEF:  
**Will Hughes**, *University of Reading, UK*

Volume 27, 2009, 12 issues per year  
ISSN Print 0144-6193, ISSN Online 1466-433X

**Construction Management and Economics** is the leading international refereed journal that publishes original research concerning the management and economics of building and civil engineering, while also including the management of built facilities.

**Construction Management and Economics** has recently been recognised by the Australian Business Deans Council as an A\* rated journal, signifying that it is amongst the best in its field.

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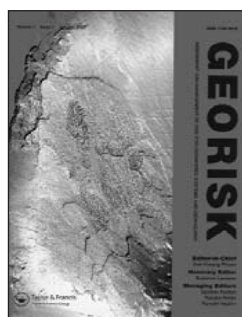
## Geomechanics and Geoengineering: An International Journal

EDITORS-IN-CHIEF:  
**Hai-Sui Yu**, *University of Nottingham, UK*  
**Michele Jamiolkowski**, *Politecnico di Torino, Italy*

Volume 4, 2009, 4 issues per year  
ISSN Print 1748-6025, ISSN Online 1748-6033

**Geomechanics and Geoengineering** is a major publication channel for research in the areas of soil and rock mechanics, geotechnical and geological engineering, engineering geology, geo-environmental engineering and all geo-material related engineering and science disciplines. The journal provides an international forum for the exchange of innovative ideas, especially between researchers in Asia and the rest of the world.

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## Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards

EDITOR-IN-CHIEF:  
**Kok-Kwang Phoon**, *National University of Singapore, Singapore*

Volume 3, 2009, 4 issues per year  
ISSN Print 1749-9518, ISSN Online 1749-9526

**Georisk** covers many diversified but interlinked areas of active research and practice, such as geohazards (earthquakes, landslides, avalanches, rockfalls, tsunamis, etc.), safety of engineered systems (dams, buildings, offshore structures, lifelines, etc.), environmental risk, seismic risk, reliability-based design and code calibration, geostatistics, decision analyses, structural reliability, maintenance and life cycle performance, risk and vulnerability, hazard mapping, loss assessment (economic, social, environmental, etc.), GIS databases, remote sensing, and many other related disciplines.

[www.tandf.co.uk/journals/ngrk](http://www.tandf.co.uk/journals/ngrk)



## International Journal of Architectural Heritage

Conservation, Analysis, and Restoration

EDITORS:  
**Paulo B. Lourenço**, *Universidade do Minho, Portugal*  
**Pere Roca**, *Universitat Politècnica de Catalunya, Spain*

Volume 3, 2009, 4 issues per year  
ISSN Print 1558-3058, ISSN Online 1558-3066

**International Journal of Architectural Heritage** provides a multidisciplinary scientific overview of existing resources and modern technologies useful for the study and repair of historical buildings and other structures. The journal includes information on history, methodology, materials, survey, inspection, non-destructive testing, analysis, diagnosis, remedial measures, and strengthening techniques.

[www.tandf.co.uk/journals/uarc](http://www.tandf.co.uk/journals/uarc)



## International Journal of Construction Education and Research

Official Journal of The Associated Schools of Construction

EDITOR:  
**Brian Moore**, *Georgia Southern University, USA*

Volume 5, 2009, 4 issues per year  
ISSN Print 1557-8771, ISSN Online 1550-3984

**International Journal of Construction Education and Research** is the official journal of the Associated Schools of Construction. The goal of the journal is to recognize scholarly work by preserving and disseminating research articles that contribute to the understanding of issues and topics associated with construction education and the construction industry.

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## International Journal of Pavement Engineering

Endorsed by the International Society for Concrete Pavements

CO-EDITORS-IN-CHIEF:  
**Tom Scarpas**, *Delft University of Technology, The Netherlands*  
**Imad L. Al-Qadi**, *University of Illinois at Urbana Champaign, USA*

Volume 10, 2009, 6 issues per year  
ISSN Print 1029-8436, ISSN Online 1477-268X

**International Journal of Pavement Engineering** is dedicated to the publication of cutting edge research and development on the provision of reliable highway and airport pavement systems. This includes advanced analytical and computational techniques, pavement mechanics, laboratory techniques, non-destructive testing, innovative design approaches and their implementation, construction, performance, maintenance and rehabilitation techniques.

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## International Journal of Sustainable Engineering

EDITOR-IN-CHIEF:  
**Shahin Rahimifard**, *Loughborough University, UK*

CO-EDITOR:  
**Allen Clegg**, *Loughborough University, UK*

Volume 2, 2009, 4 issues per year  
ISSN Print 1939-7038, ISSN Online 1939-7046

**International Journal of Sustainable Engineering** is predicated on the need for engineers to have access to a source of information and an opportunity to share, through publication, new ideas and solutions for sustainable development. Researchers from both academia and industry are invited to submit papers on their recent research into problems related to reducing the environmental impacts of engineered systems, processes and products. The **International Journal of Sustainable Engineering** also welcomes papers that include economic and social components that complement the engineering dimension, consider the management of sustainable engineering, or address the modelling of sustainable engineering solutions.

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## International Journal of Sustainable Transportation

EDITORS-IN-CHIEF:  
**S.C. Wong**, *The University of Hong Kong, Hong Kong*  
**Chang-Ho Park**, *Seoul National University, Korea*

Volume 3, 2009, 6 issues per year  
ISSN Print 1556-8318, ISSN Online 1556-8334

The **International Journal of Sustainable Transportation** provides a discussion forum for the exchange of new and innovative ideas on sustainable transportation research in the context of environmental, economical, social, and engineering aspects, as well as current and future interactions of transportation systems and other urban subsystems.

[www.tandf.co.uk/journals/ujst](http://www.tandf.co.uk/journals/ujst)



## International Journal of Water Resources Development

EDITOR-IN-CHIEF:  
**Asit K. Biswas**, *President, Third World Centre for Water Management, Mexico*

Volume 25, 2009, 4 issues per year  
Print ISSN 0790-0627, Online ISSN 1360-0648

**International Journal of Water Resources Development** covers all aspects of water development and management in both industrialized and Third World countries. Contents focus on the practical implementation of policies for water resources development, monitoring and evaluation of technical projects, and, to a lesser extent, water resources research. Articles are rigorous and in-depth, and range in approach from applied geographical analysis to the examination of strategic, economic and social issues.

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## Journal of Building Performance Simulation

Official Journal of the International Building Performance Simulation Association

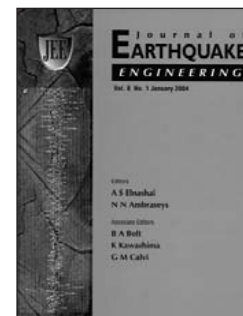
EDITORS-IN-CHIEF:  
**Ian Beausoleil-Morrison**, *Carleton University, Canada*

**Jan Hensen**, *Eindhoven University of Technology, The Netherlands*

Volume 2, 2009, 4 issues per year  
ISSN Print 1940-1493, ISSN Online 1940-1507

The wide scope of **Journal of Building Performance Simulation** embraces research, technology and tool development related to building performance modelling and simulation, as well as their applications to design, operation and management of the built environment. This includes modelling and simulation aspects of building performance in relation to other research areas such as building physics, environmental engineering, mechanical engineering, control engineering, facility management, architecture, ergonomics, psychology, physiology, computational engineering, information technology and education.

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## Journal of Earthquake Engineering

EDITORS:  
**Amr Elnashai**, *University of Illinois, Urbana Champaign, USA*  
**Nicholas Ambraseys**, *Imperial College, UK*

Volume 13, 2009, 8 issues per year  
ISSN Print 1363-2469, ISSN Online 1559-808X

**Journal of Earthquake Engineering** publishes papers on research and development in analytical, experimental, and field studies of earthquakes from an engineering seismology as well as a structural engineering viewpoint. The journal draws on research and development work from engineering communities worldwide in the fields of earthquake engineering and engineering seismology.

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## Journal of Environmental Planning and Management

MANAGING EDITOR:  
**Kenneth G. Willis**, *University of Newcastle, UK*

Volume 52, 2009, 8 issues per year  
Print ISSN 0964-0568, Online ISSN 1360-0559

**Journal of Environmental Planning and Management** is a leading forum for up-to-date scholarly but accessible papers on all aspects of environmental planning and management. With contributions from leading international authors, the Journal publishes influential, high quality papers – an essential feature whether you are a subscriber, reader, contributor or all three. The central aim is to focus on the integrated planning and management of the environment.

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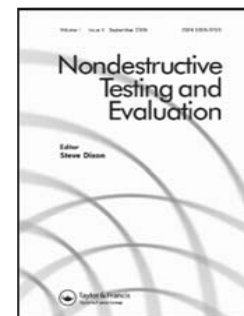
## Journal of Environmental Policy & Planning

EDITORS:  
**Richard Cowell**, *Cardiff University, UK*  
**Andrew Flynn**, *Cardiff University, UK*

Volume 11, 2009, 4 issues per year  
Print ISSN 1523-908X, Online ISSN 1522-7200

**The Journal of Environmental Policy & Planning** is an international journal that provides a forum for the critical analysis of environmental policy and planning. It explores the environmental dimensions of common policies such as transport, agriculture and fisheries, urban and rural policy, all stages in the policy and planning processes from formulation to implementation, and the interactions between governments and markets, the strategies of non-governmental organizations and business in relation to the environment, and land-use decision-making.

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## Nondestructive Testing and Evaluation

EDITOR-IN-CHIEF:  
**Steve Dixon**, *University of Warwick, UK*

Volume 24, 2009, 4 issues per year  
ISSN Print 1058-9759, ISSN Online 1477-2671

**Nondestructive Testing and Evaluation** publishes letters, papers and review articles describing the results of research and development in the underlying theory, novel techniques and applications of nondestructive testing and evaluation. Articles concerning both the investigation of physical processes and the development of mechanical processes and techniques are welcomed. Studies of conventional techniques, including radiography, ultrasound, eddy currents, magnetic properties and magnetic particle inspection, thermal imaging and dye penetrant, will be considered in addition to more advanced approaches using, for example, lasers, squid magnetometers, interferometers, synchrotron and neutron beams and Compton scattering. Work on the development of conventional and novel transducers is particularly welcomed. In addition, articles are invited on general aspects of nondestructive testing and evaluation in education, training, validation and links with engineering.

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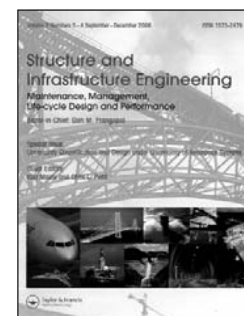
Official Journal of the American Society for Nondestructive Testing

EDITOR-IN-CHIEF:  
**John C. Duke, Jr.**, *Virginia Polytechnic Institute and State University, USA*

Volume 20, 2009, 4 issues per year  
ISSN Print 0934-9847, ISSN Online 1432-2110

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Volume 5, 2009, 6 issues per year  
ISSN Print 1573-2479, ISSN Online 1744-8980

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