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select the most appropriate to take forward. Evaluation criteria usually include the economic, environmental and social...

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PhD is a lecturer at the Dublin Institute of Technology where he specialises in the financial, economic and policy assessment of renewable energy technologies ...

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In his current work on 'Appraisal,' Martin (in press) is developing system network descriptions of our semantic options for evaluating people, things, and phenomena.

In my

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In most cases of civil engineering development, a range of alternative schemes meeting project goals are feasible, so some form of evaluation must be carried out to select the most appropriate to take forward. Evaluation criteria usually

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include the economic, environmental and social contexts of a project as well as the engineering challenges, so engineers must be familiar with the processes and tools used. The second edition of Engineering Project Appraisal equips students with the understanding and analytical tools to carry

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out effective appraisals of alternative development schemes, using both economic and non-economic criteria. The building blocks of economic appraisal are covered early, leading to techniques such as net present worth, internal rate of return and annual worth. Cost Benefit Analysis is dealt with in

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detail, together with related methods such as Cost Effectiveness and the Goal Achievement Matrix. The text also details three multi-criteria models which have proved useful in the evaluation of proposals in the transportation, solid waste, energy and water resources fields:

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the Simple Additive Weighting (SAW) Model, the Analytic Hierarchy Process (AHP) technique and Concordance Analysis. There is a full discussion dealing with risk and uncertainty in these models. With many worked examples and case studies, Engineering Project Appraisal is an essential

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text for both
undergraduate and
postgraduate students on
professional civil
engineering courses, and
it is expected that
students on planning
and construction
management courses
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addition to their reading.

Rogers: Highway
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provides an introduction to highway engineering for students on degree and diploma courses in civil engineering. It moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the

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design and maintenance of both flexible and rigid pavements.

Existing texts have tended to concentrate purely on highway planning and analysis, or on pavement design and maintenance aspects of highway engineering. As a result, the standard has tended to be too advanced for students studying the subject for

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the first time. This textbook covers the basic ground in both areas. It features worked examples and case studies as an aid to understanding individual topics and aims to provide the student with a solid, practically based foundation for the topic of highway engineering, thus providing a

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gateway to the more advanced and specialised texts. The author Martin Rogers, BE, MEngSc, PhD, BA(Public Ad), CEng, MICE, MRTPI, Chartered Engineer and Chartered Town Planner, received his professional education at University College Dublin and the Institute of Public

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Administration, Dublin.

He has worked in private practice and as a senior local authority engineer and was a member of the Dublin Transport Initiative Study Team that devised the current transportation plan for the Dublin city region. He joined the permanent staff at the Dublin Institute of Technology

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in 1993 and is currently
a Senior Lecturer in the
Department of Civil and
Structural Engineering.

He has previously co-
written one postgraduate
and one undergraduate
text on project appraisal
methods and has
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papers in a number of
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The repair, renovation
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along with the provision of new highways, is a core element of civil engineering, so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners.

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justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance

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Includes detailed discussions of traffic analysis and the economic appraisal of projects Makes frequent reference to the Department of Transport's Design Manual for Roads and Bridges Places the provision of roads and motorways in context by introducing the economic, political,

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social and
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The recent rise to prominence of renewable energy and energy efficiency has been driven by their potential to lower the environmental impacts of energy use. As these technologies mature

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they must demonstrate not only their environmental benefits, but also their economic competitiveness. The relative costs and benefits of each potential project, whether large or small, must be systematically modelled and assessed before they can be financed and implemented.

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Renewable Energy and
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Assessment of Projects
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the appraisal of such

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financial and non-

financial criteria,

illustrating the

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necessary to make

appropriate, evidence

based decisions as

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The most important technologies are first described, stressing their economic and performance characteristics. Key project appraisal concepts are then introduced, approaches to modelling the cash flows in energy projects are described, and the issues of uncertainty and optimisation are fully

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discussed. These financial concepts, together with methods for estimating greenhouse gas emissions, are extended to address aspects of energy policy.

Illustrated with many case studies this is an ideal introduction to financial and non-financial appraisal techniques as applied to

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energy efficient and
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geometric alignment of
highways, junction and
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has been expanded to
include a detailed
explanation of how to
use Eurocode 7 for

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geotechnical design. The key change in this new edition is the expansion of the content covering Geotechnical Design to Eurocode 7.

Redundant material relating to the now defunct British Standards - no longer referred to in degree teaching - has been removed. Building on the success of the

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earlier editions, this 9th edition of Smith's Elements of Soil Mechanics brings additional material on geotechnical design to Eurocode 7 in an understandable format. Many worked examples are included to illustrate the processes for performing design to this European standard. Significant updates

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throughout the book
have been made
to reflect other
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in the construction and
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many new figures have
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been improved and the

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of the pages give a lift.
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illustrate the use of

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The management of construction projects is a wide ranging and challenging discipline in

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an increasingly international industry, facing continual challenges and demands for improvements in safety, in quality and cost control, and in the avoidance of contractual disputes. Construction Management grew out of a Leonardo da Vinci project to develop a series of Common Learning Outcomes for

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Project Managers in Construction. Financed by the European Union, the project aimed to develop a library of basic materials for developing construction management skills for use in a pan-European context. Focused exclusively on the management of the construction phase of a building project from

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the contractor's point of view, Construction Management covers the complete range of topics of which mastery is required by the construction management professional for the effective delivery of new construction projects. With the continued internationalisation of

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the construction industry, Construction Management will be required reading for undergraduate and postgraduate students across Europe.

The present book finds its roots in the International Conference on Methods and Applications of Multiple Criteria

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Decision Making held in
Mons in May 1997. A
small number of
contributions to that
conference were
selected via a refereeing
procedure and retained
authors were requested
to include in their final
version their more
recent results. This
explains why some
papers differ
significantly from the

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original presentation.

The introductory paper of Raynaud addresses the long range forecasts in Multiple Criteria Decision Making on the basis of a Delphi process that was run before and during the congress. In a second part, the French author explains how he and some of his partners could find the proof of

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an important conjecture
: the iteration of a
strongly monotonic
choice function is not a
strongly monotonic
ranking function. The
second part of the book
covers methodological
aspects of decision
theory. The contribution
of Bouyssou and Pirlot
concerns the
reformulation of
classical conjoint

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measurement models that induce a complete and transitive preference binary relation on the set of alternatives which seem to be unrealistic when decision makers are asked to compare objects evaluated on several attributes. The authors propose to consider non transitive, non complete and non additive decomposable

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