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members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement

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Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II. Antonio De Luca and Hany Zadeh are consultant design engineers.

This book is

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focused on the theoretical and practical design of reinforced concrete beams, columns and frame structures. It is based on an analytical approach of designing normal reinforced concrete

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structural elements that are compatible with most international design rules, including for instance the European design rules – Eurocode 2 – for reinforced concrete structures. The

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book tries to distinguish between what belongs to the structural design philosophy of such structural elements (related to strength of materials arguments) and what belongs to

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the design rule aspects associated with specific characteristic data (for the material or loading parameters). A previous book, entitled Reinforced Concrete Beams, Columns and

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including the use of non-local mechanics are also presented.

This book is aimed at Masters-level students, engineers, researchers and teachers in the field of reinforced concrete design.

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books in this area are very practical or code-oriented, whereas this book is more theoretically based, using rigorous mathematics and mechanics tools.

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Authors Jostein
Hellesland has
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of Structural
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University of
Oslo, Norway
since January
1988. His
contribution to
the field of
stability has

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been recognized
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and Journal of
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Noël Challamel
is Professor in
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UBS, University
of South
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France and
chairman of the
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committee. His contributions mainly concern the dynamics, stability and inelastic behavior of structural components, with special emphasis on Continuum Damage Mechanics (more than 70 publications in

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Charles

Casandjian was
formerly
Associate

Professor at
INSA (French
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and the chairman of the course on reinforced concrete design. He has published work on the mechanics of concrete and is also involved in creating a web experience for teaching reinforced concrete design

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Christophe Lanos
is Professor in
Civil

Engineering at
the University
of Rennes 1 in
France. He has
mainly published
work on the
mechanics of
concrete, as
well as other
related

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subjects. He is also involved in creating a web experience for teaching reinforced concrete design – BA-CORTEX.

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