

1. Record Nr.	UNINA9910139671903321
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Titolo	Design of plated structures : eurocode 3: design of steel structures : Part 1-5 design of plated structures // Darko Beg [and three others]
Pubbl/distr/stampa	Berlin : , : ECCS : , : Wilhelm Ernst & Sohn Verlag, , [2010] ©2010
ISBN	3-433-60115-1 1-283-43209-9 9786613432094 1-62198-008-1 3-433-60114-3 3-433-60117-8
Edizione	[First edition.]
Descrizione fisica	1 online resource (291 p.)
Collana	ECCS Eurocode design manuals
Disciplina	624.1821
Soggetti	Building, Iron and steel Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Title Page; Table Of Contents; Foreword; Preface; Symbols; Chapter 1: Introduction; 1.1 Plate Buckling In Steel Structures; 1.2 Purpose Of This Book; 1.3 Structure Of This Book; Chapter 2: Overview Of Design Rules; 2.1 Introduction; 2.2 Basis Of Design And Modelling; 2.2.1 General; 2.2.2 Effective width models for global analysis; 2.2.3 Uniform and non-uniform members; 2.2.4 Reduced stress method; 2.3 Shear Lag In Member Design; 2.3.1 Phenomenon; 2.3.2 Shear lag in global analysis (calculation of internal forces and moments) 2.3.3 Elastic shear lag in section analysis (calculation of stresses at SLS and fatigue ULS) 2.3.4 Elastoplastic shear lag in section analysis (calculation of stresses at ULS); 2.3.5 Interaction between shear lag and plate buckling at ULS; 2.3.6 Design examples; 2.4 Plate Buckling Effects Due To Direct Stresses (Including Annexes A And E Where Applicable); 2.4.1 Introduction; 2.4.2 Effective width method; 2.4.2.1 General requirements; 2.4.2.2 Principles of effective width calculation; 2.4.2.3 Hybrid girders; 2.4.2.4 Plate-like and column-like buckling; 2.4.3

## Plate-like buckling

2.4.3.1 Unstiffened plates; 2.4.3.2 Longitudinally stiffened plates; 2.4.4

Column-like buckling; 2.4.4.1 Unstiffened plates; 2.4.4.2

Longitudinally stiffened plates; 2.4.5 Interpolation between plate-like

and column-like buckling; 2.4.6 Verification of the cross section

resistance in ultimate limit states; 2.4.7 Verification of plated structural

elements in the serviceability limit states; 2.4.8 Design examples; 2.5

Resistance To Shear (Including Annex A Where Applicable); 2.5.1

Collapse behaviour; 2.5.2 Design according to section 5, EN 1993-1-5;

2.5.3 Design example

2.6 Resistance To Transverse Loading; 2.6.1 Collapse behaviour; 2.6.2

Design according to section 6, EN 1993-1-5; 2.6.3 Design examples;

2.7 Interaction; 2.7.1 Interaction between bending moment and shear

force in a web panel; 2.7.2 Interaction between axial force, bending

moment and shear force in a web panel; 2.7.3 Interaction between axial

force, bending moment and shear force in a flange panel; 2.7.4

Interaction between axial force, bending moment and transverse force;

2.7.5 Interaction between shear force and transverse force in a web

panel; 2.7.6 Design example

2.8 Flange Induced Buckling; 2.9 Stiffeners And Detailing; 2.9.1

Introduction; 2.9.2 Transverse stiffeners; 2.9.2.1 Direct stresses;

2.9.2.2 Shear; 2.9.2.3 Simultaneous action of direct stresses and shear;

2.9.2.4 Introduction of reaction forces and other large transverse

forces; 2.9.3 Longitudinal stiffeners; 2.9.3.1 Direct stresses; 2.9.3.2

Shear; 2.9.4 Torsional buckling of stiffeners; 2.9.5 Structural detailing

related to plate buckling; 2.9.5.1 Transverse welds in the plate; 2.9.5.2

Cut-outs in stiffeners; 2.9.5.3 Welds; 2.9.6 Design examples

2.10 Reduced Stress Method (Including Annexes A And B Where Applicable)

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### Sommario/riassunto

The main aim of this book is to provide practical advice to designers of plated structures for correct and efficient application of EN 1993-1-5 design rules. In chapter 1 the purpose, the scope and the structure of the book is explained. In chapter 2 a rather detailed and commented overview of EN 1993-1-5 design rules is given following the structure of the standard. Shear lag effect as well as plate buckling problems due to direct stresses, shear forces, transverse forces and interactions of these effects are covered. This chapter also includes a reduced stress method and a finite element ana

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