

1. Record Nr.	UNINA9910458224203321
Titolo	Advances in steel structures [[electronic resource] ] : proceedings of the Third International Conference on Advances in Steel Structures, 9-11 December 2002, Hong Kong, China . Volume 2 // edited by S.L. Chan, J.G. Teng and K.F. Chung ; organized by Research Centre for Advanced Technology in Structural Engineering, Department of Civil and Structural Engineering, the Hong Kong Polytechnic University ; sponsored by the Hong Kong Institution of Engineers, the Hong Kong Institution of Steel Construction
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier, 2002
ISBN	1-281-07228-1 9786611072285 0-08-052681-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (633 p.)
Altri autori (Persone)	ChanS. L TengJ. G ChungK. F
Disciplina	624.1/821
Soggetti	Building, Iron and steel Structural design Steel, Structural 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 and indexes.
Nota di contenuto	Front Cover; ADVANCES IN STEEL STRUCTURES; Copyright Page; CONTENTS; Preface; International Scientific Committee; Conference Advisory Committee; Conference Organizing Committee; Part I: Plates; Chapter 1. Numerical Modelling of Stainless Steel Plates; Chapter 2. Local Buckling of Biaxially Compressed Steel Plates in Double Skin Composite Panels; Chapter 3. Ductility of High Performance Steel Rectangular Plates Under Uniaxial Compression; Chapter 4. Shear-Carrying Capacity of Steel Plate Shear Wall with Cross Stiffeners; Chapter 5. Elastic Critical Moments of I Sections with Very Slender Webs Part II: ShellsChapter 6. An Efficient Strategy for the Evaluation of the

Reliability of 3D Shells in Case of Non Linear Buckling; Chapter 7. Case Study of a Medium-Length Silo Under Wind Loading; Chapter 8. Buckling of Thin Pressurized Cylindrical Shells Under Bending Load; Chapter 9. Stability of Thin-Walled Cylindrical Shells Subjected to Lateral Patch Loads; Chapter 10. Buckling of Circular Steel Silos Subject to Eccentric Discharge Pressures-Part I; Chapter 11. Buckling of Circular Steel Silos Subject to Eccentric Discharge Pressures-Part II; Chapter 12. Aspects of Corrugated Silos  
Chapter 13. Buckling Experiments on Transition Rings in Elevated Steel Silos  
Chapter 14. Buckling Strength of Cylinders with a Consistent Residual Stress; Chapter 15. Buckling Behaviour of Extensively-Welded Steel Cylinders Under Axial Compression; Chapter 16. Experiment on a Model Steel Base Shell of the Comshell Roof System; Chapter 17. Effect of Cracks on Vibration, Buckling and Parametric Instability of Cylindrical Shells; Chapter 18. An Experimental Study for Seismic Reinforcement Method on Existing Cylindrical Steel Piers by Welded Rectangular Steel Plates; Part III: Bridges  
Chapter 19. Metal Forms Replace Reinforcement in Bridge Deck Slabs  
Chapter 20. Analysis of the Camber at Prestressing of a New Kind of Composite Railway Bridge Deck; Chapter 21. Evaluation of Typhoon Induced Fatigue Damage Using Health Monitoring Data; Chapter 22. Fatigue Stress Analysis of Suspension Bridges Using FEM; Chapter 23. Curved Steel Box-Girder Bridges at Construction Phase; Chapter 24. Numerical Study of Characteristic Behavior of Steel Plate Girder Bridges; Chapter 25. Nonlinear Seismic Response Analysis of a Deck-Type Steel Arch Bridge  
Chapter 26. The Unit Load Method - Some Recent Applications  
Chapter 27. Global Analysis of Steel and Composite Highway Bridges - Development of Improved Spatial Beam Models; Part IV: Dynamics; Chapter 28. Field Comparative Tests of Cable Vibration Control Using Magnetorheological (MR) Dampers in Single- and Twin-Damper Setups; Chapter 29. Evaluation of Ride Comfort of Road Vehicles Running on a Cable-Stayed Bridge Under Crosswind; Chapter 30. Comparison of Buffeting Response of a Suspension Bridge Between Analysis and Aeroelastic Test; Chapter 31. Dynamic Response of the Cable to Moving Mass  
Chapter 32. Traffic-Induced Microvibration Mitigation of High Tech Equipment Inside a Building Using Passive/Active Platform

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## Sommario/riassunto

These two volumes of proceedings contain nine invited keynote papers and 130 contributed papers presented at the Third International Conference on Advances in Steel Structures (ICASS '02) held on 9-11 December 2002 in Hong Kong, China. The conference is a sequel to the First and the Second International Conferences on Advances in Steel Structures held in Hong Kong in December 1996 and 1999. The conference provides a forum for discussion and dissemination by researchers and designers of recent advances in the analysis, behaviour, design and construction of steel structures. Papers were

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