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plastic limit analysis of plates, shells and disks

M.A. SAVE C.E. MASSONNET G. DE SAXCE

Plastic Limit Analysis Of Plates Shells And Disks

Konstantinos Spiliopoulos, Dieter Weichert

Plastic Limit Analysis Of Plates Shells And Disks:

Plastic Limit Analysis of Plates, Shells and Disks M.A. Save, C.E. Massonnet, G. de Saxcé, 1997-12-18 This revised and updated edition of a book first published in 1972 has kept the general features of the first edition but as could be expected after two decades there are also substantial differences For instance optimal design has been completely deleted as the developments in this field have been so great that it warrants a book in itself The fundamental concepts based on Drucker's postulate rather than those of Prager's assumptions function have been introduced Problems of cyclic loading have been given some more extensive treatment both in the general theory and in applications General indications and references have been added for reinforced concrete plates and shells A general presentation of the yield condition for both plates and shells has been included and the section on the influence of axial force in plates has been almost re written Finally a chapter has been added exclusively devoted to the numerical approach to limit load and shake down load evaluation Like the previous edition the book is directed towards engineering applications. The theory is rigorously developed and is therefore of great use to engineering students in plastic limit analysis Furthermore applications to metal and reinforced concrete plates and shells and to metal disks are treated by both analytical and numerical approaches Plastic Limit Analysis of Plates, Shells, and Structural Plasticity Mao-Hong Yu, Guo-Wei Ma, Jian-Chun Li, 2009-11-14 Limit and shakedown <u>Disks</u> M. A. Save, 1997 analysis for structures can provide a very useful tool for design and analysis of engineering structures Structural Plasticity Limit Shakedown and Dynamic Plastic Analyses of Structure provides more general solutions of limit and shakedown analysis for structures by using a unified strength theory A series of solutions of plates from circular annular plates to rhombus plates and square plates rotating discs and cylinders pressure vessels are presented These results encompass the Tresca Mohr Coulomb solution of structure as special cases The unified solution which cannot be obtained by using a single criterion is suitable to more materials and structures Maohong Yu is professor of Department of Civil Engineering at Xi an Jiaotong University China He has authored 12 books including Unified Strength Theory and Its Applications and Generalized Plasticity

Direct Methods for Limit and Shakedown Analysis of Structures Paolo Fuschi, Aurora Angela Pisano, Dieter Weichert, 2015-01-06 Articles in this book examine various materials and how to determine directly the limit state of a structure in the sense of limit analysis and shakedown analysis Apart from classical applications in mechanical and civil engineering contexts the book reports on the emerging field of material design beyond the elastic limit which has further industrial design and technological applications Readers will discover that Direct Methods and the techniques presented here can in fact be used to numerically estimate the strength of structured materials such as composites or nano materials which represent fruitful fields of future applications Leading researchers outline the latest computational tools and optimization techniques and explore the possibility of obtaining information on the limit state of a structure whose post elastic loading path and constitutive behavior are not well defined or well known Readers will discover how Direct Methods allow rapid and

direct access to requested information in mathematically constructive manners without cumbersome step by step computation Both researchers already interested or involved in the field and practical engineers who want to have a panorama of modern methods for structural safety assessment will find this book valuable It provides the reader with the latest developments and a significant amount of references on the topic Elastic, Plastic and Yield Design of Reinforced Structures Patrick De Buhan, Jérémy Bleyer, Ghazi Hassen, 2017-07-21 Elastic Plastic and Yield Design of Reinforced Structures presents a whole set of new results which have been published by the authors over the last 30 years in the field of continuum solid mechanics applied to the analysis and design of reinforced civil engineering structures The focus is on the development and application of up scaling homogenization methods in the design of such composite structures with a special emphasis on the plastic behavior and ultimate strength of materials The specificity of the book is highlighted by at least two completely innovative concepts which lie at the very heart of the book s originality the elaboration of a fully comprehensive homogenization based method for the design of reinforced structures and not only materials through the study of macroscopic behavior and the development of a multiphase model for materials reinforced by linear inclusions which considerably extends the range of applicability of the classical homogenization procedure Sums up almost thirty years of original research in the field of mechanics applied to the analysis and design of reinforced civil engineering structures Focuses on the application of upscaling homogenization methods to the design of civil engineering structures Highlights the elaboration of a fully comprehensive homogenization based method for the design of reinforced structures and not only materials through the concept of macroscopic behavior Features development of a multiphase model for materials reinforced by linear inclusions which considerably extends the range of applicability of the classical homogenization procedure

geometrical parameters that describe the concerned system and subsystems the method provides a unifying framework for building up consistently associated force models where external and internal forces are introduced through their virtual rates of work Systems described as three dimensional curvilinear or planar continua are considered force models are established with the corresponding equations of motion the validation process points out that enlarging the domain of relevance of the model for practical applications calls for an enrichment of the geometrical description that takes into account the underlying **Yield Design** Jean Salençon, 2013-05-06 Since the middle of the 20th Century yield design approaches have been identified with the lower and upper bound theorem of limit analysis theory a theory associated with perfect plasticity This theory is very restrictive regarding the applicability of yield design approaches which have been used for centuries for the stability of civil engineering structures This book presents a theory of yield design within the original equilibrium resistance framework rather than referring to the theories of plasticity or limit analysis expressing the compatibility between the equilibrium of the considered structure and the resistance of its constituent material through simple mathematical arguments of duality and convex analysis results in a general formulation which encompasses the many aspects of its implementation to various stability analysis problems After a historic outline and an introductory example the general theory is developed for the three dimensional continuum model in a versatile form based upon simple arguments from the mathematical theory of convexity It is then straightforwardly transposed to the one dimensional curvilinear continuum for the yield design analysis of beams and the two dimensional continuum model of plates and thin slabs subjected to bending Field and laboratory observations of the collapse of mechanical systems are presented along with the defining concept of the multi parameter loading mode The compatibility of equilibrium and resistance is first expressed in its primal form on the basis of the equilibrium equations and the strength domain of the material defined by a convex strength criterion along with the dual approach in the field of potentially safe loads as is the highlighting of the role implicitly played by the theory of yield design as the fundamental basis of the implementation of the ultimate limit state design ULSD philosophy with the explicit introduction of resistance parameters Combined Loadings in the Theory of Plasticity Michal Zyczkowski,1981-12-31 Thin Shell Theory W. Olszak, 2014-05-04 Buckling of Thin Metal Shells J.G. Teng, J.M. Rotter, 2006-06-28 Thin walled metal shell structures are highly efficient in their use of material but they are particularly sensitive to failure by buckiling Many different forms of buckling can occur for different geometries and different loading conditions Because this field of knowledge is both complex and industrially important it is of great interest and concern in a wide range of industries This book presents a compilation and synthesis of a wealth of research experience and knowledge of the subject Information that was previously widely scattered throughout the literature is assembled in a concise and convenient form that is easy to understand and state of the art research findings are thoroughly examined This book is useful for those involved in the structural design of silos tanks pipelines biodigestors chimneys towers offshore platforms aircraft

and spacecraft Buckling of Thin Metal Shells is essential reading for designers researchers and code writers involved with thin walled metal shell structures **Applied Mechanics Reviews** ,1974 Plastic Analysis and Design of Plates. Shells and Disks M. A. Save, Charles Ernest Massonnet, 1972 Plasticity in Structural Engineering, Fundamentals and Applications Ch. Massonnet, W. Olszak, A. Phillips, 2014-05-04 Generalized Plasticity Mao-Hong Yu, 2006-05-20 Generalized Plasticity deals with the plasticity of materials and structures It is an expansion of the Unified Strength Theory to Plasticity Theory leading to a unified treatment of metal plasticity and plasticity of geomaterials generally It includes the metal plasticity for Tresca materials Huber von Mises materials and twin shear materials and the geomaterial plasticity for Mohr Coulomb materials generalized twin shear materials and the Unified Strength Theory Pressure Vessels and Piping S. Y. Zamrik, David Dietrich, 1982 Pressure Vessel Design: The Direct Route Josef L Zeman, Franz Rauscher, Sebastian Schindler, 2006-06-23 This book explores a new economically viable approach to pressure vessel design included in the harmonized standard EN 13445 for unfired pressure vessels and based on linear as well as non linear Finite Element analyses It is intended as a supporting reference of this standard's route providing background information on the underlying principles basic ideas presuppositions and new notions Examples are included to familiarize readers with this approach to highlight problems and solutions advantages and disadvantages The only book with background information on the direct route in pressure vessel design Contains many worked examples supporting figures and tables and a comprehensive glossary Composite Steel Structures S.L. Lee, N.E. Shanmugan, 1991-08-29 Proceedings of the International of terms Conference on Steel and Aluminium Strucutres ICSAS 91 Singapore 22 24 May 1991 The complete proceedings are available in three volumes steel structures aluminium structures and composite steel structures. The conference was organised by the Department of Civil Engineering National University of Singapore sequel to the one held in Cardiff UK in July 1987 It was co sponsored by the International Association for Bridge and Structural Engineering the Institution of Civil Engineers the Institution of Engineers Singapore the Institution of Structural Engineers the Steel Construction Institute UK the Singapore Structural Steel Society and the University of Wales College of Cardiff The conference provided a forum to discuss recent advances and trends in the analysis design and construction of all types of metal structures. This volume contains 18 of the papers presented at the conference Invited Lectures on the state of the art surveys have been provided by well known experts in their respective fields The coverage is extensive and topics include Bridges Building Floor Systems Concrete Filled Hollow Sections Aluminium concrete Systems Composite Members to Earthquake Loading etc The British National **Bibliography** Arthur James Wells, 1999

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