

图书基本信息

书名：<<第十一届结构工程国际研讨会论文集（上下册）>>

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内容概要

《第十一届结构工程国际研讨会》是由崔杰、冯新、季平茹、金广腾编写，全书共分上下两册，主要收录了“第十一届结构工程国际研讨会”上的论文百余篇，具体内容包括《Structural Analysis》《FEM Analysis for Stiffness of Hollow Spherical Joints with Rib Stiffeners》《Seismic response Analysis for UHVDC Air Type Smoothing Reactors》《Energy Dissipation at External Diaphragm Connection of 3D Steel Frames Used CHS Column and H-Shaped Beam under Cyclic Loading》等。该书可供各大专院校作为教材使用，也可供从事相关工作的人员作为参考用书使用。

书籍目录

Preface Volume Structural Analysis Punching Shear Resistance of Shearhead Connection between Flat Slab and Tubular Column FEM Analysis for Stiffness of Hollow Spherical Joints with Rib Stiffeners The Influence of Joint's Stiffness on Stability of Reticulated Shell The Influence of Damping Ratio on Response Modification Factor and Displacement Amplification Factor Experimental Study on Direct Performance-based Behaviour of High-Performance Concrete Shear Walls Mechanical Property Discussing of Double-cell Reinforced Concrete Rectangular Liquid-storage Structure under Temperature Effects Parameter Determination About Loess Tunnel Analysis Model under Earthquake Action Fragility Analysis Method for Irregular Plan Reinforced Concrete Frame Structures Study on Relationship between Chloride Diffusion in Concrete and Time Failure Risk Analysis for Levee Slope in Consideration of Influence of Immersional Wetting Modified Solution Strategy of Framed Structures for Geometrically Nonlinear Analysis Nonlinear Finite Element Analysis of Beam String Structure Seismic response Analysis for UHVDC Air Type Smoothing Reactors Experimental Study on Complete Stress-strain Curve of Expanded Polystyrene Lightweight Concrete under Uniaxial Loading The Reliability of Workshops by Fuzzy Comprehensive Evaluation Research on Shear Performance of Stiffened Steel Shear Wall with Slits The Performance Index Limits for Ductile RC Shear Wall Components Based on Chinese Codes Energy Dissipation at External Diaphragm Connection of 3D Steel Frames Used CHS Column and H-Shaped Beam under Cyclic Loading Response of Multiple-degree-of-freedom Flexible Structures to Random Excitation Assessment of Probability of Collapse for an MRF Subjected to Near-Fault Ground Motions Study on Influence of Stress Wave Effect for Impact Bifurcation Buckling of Axial Compression Bars with Different Boundary Conditions Damage Mechanism of Reinforced Concrete Slab under Internal Blast Loading Research on Relations between Behaviour and Construction Parameters of Semi-rigid Connections Analysis of Dynamic Characters of Xiaoyan Tower Based on Interaction of Soil and Structure Study on Frame Structure Vibration Control Mechanism of Infill Walls as TMD Yield Line Model for Predicting the Static Strength of Tubular T-Joints with Collar Plate Reinforcement New Variable Structure Control with Compensator for Building Structure The Effects of Time-dependent Behavior on Cable State of Existing Cable-stayed Bridge The Finite Element Analysis of Double-tube Buckling Restrained Braces Model Updating Using Substructural Modal Data Spatial Integral Analysis of 330kV Substation Framework Finite Element Analysis of Steel Reinforced Lightweight Concrete Beams Based on Bond-slip Relationship Study on the Anchorage Length of the Steel Reinforced Lightweight Aggregate Concrete Limit Analysis of Structures Containing Flaws Based on the Elastic Modulus Reduction Method Shaking Table Tests and Numerical Analysis of Structural Model of China Pavilion for Expo 2010 Shanghai Comparative Shaking Table Model Tests on the Soil-pile-structure Interaction System in Various Liquefiable Soils Analysis of Moment Rotation Relationships of Ultra-high Performance Concrete Slabs …… Volume

章节摘录

版权页：插图：Abstract: In view of the fact that steel cables for cable-stayed bridges are susceptible to corrosion damage and tend to get stress relaxation after long-term service, it is essential to be considered those time-dependent effects in the analysis of in-service cable behavior. However, most of the recent methods are based on the cable material in perfect state and the effects of time-dependent behavior associated with cable corrosion and stress relaxation are neglected, which makes the application of the current methods difficult in dealing with in-service cable structures. By introducing equivalent strain principle and geometric damage theory, the corrosion mechanism of cable is described. A convergence iterative solution for inclined cable is formulated by solving the boundary problem with the governing differential equation of the in-service cable. With the proposed method, cable corrosion as well as stress relaxation has been taken into consideration, which leads to good precision and provides a new approach to assess the in-service condition of cables in existing cable-stayed bridges, and it could be applied in structural health monitoring of long-span cable-stayed bridges. Keywords: Cable-stayed bridge, Cable, Behaviour, Assessment, Corrosion.

编辑推荐

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