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Nota di contenuto	SELECTED CONTENTS.. VOLUME 1. Preface v. Keynote papers. Invited papers. Steel structures: general considerations. Concrete structures: general considerations. Steel-concrete composite construction. Masonry, glass and timber structures. Plate, shell and containment structures. Lamintaed composite plates and shells. Bridges, towers and masts. Finite element formulations. Finite element and numerical modelling. Cracking and fracture mechanics. Soil-structure and fluid-structure interaction. VOLUME 2. Preface v. Stability of thin-walled members. Vibration and dynamic analysis. Vibration control and seismic analysis. Seismic design of stell structures. Seismic design of concrete structures. Analysis and design for blast and impact. Fire safety and fire resistance. Structural safety and reliability. Structural optimisation. Damage prediction and damage assessment. Repair, rehabilitation and strengthening. Loadings and code developments. Concrete and concrete materials. Construction technology and methods. Structural engineering education. Late papers
Sommario/riassunto	Following on from the International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town in April

2001, this book contains the Proceedings, in two volumes. There are over 170 papers written by Authors from around 40 countries worldwide. The contributions include 6 Keynote Papers and 12 Special Invited Papers. In line with the aims of the SEMC 2001 International Conference, and as may be seen from the List of Contents, the papers cover a wide range of topics under a variety of themes. There is a healthy balance between papers of a theoretical nature, concerned with various aspects of structural mechanics and computational issues, and those of a more practical nature, addressing issues of design, safety and construction. As the contributions in these Proceedings show, new and more efficient methods of structural analysis and numerical computation are being explored all the time, while exciting structural materials such as glass have recently come onto the scene. Research interest in the repair and rehabilitation of existing infrastructure continues to grow, particularly in Europe and North America, while the challenges to protect human life and property against the effects of fire, earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings, bridges and other engineering structures
