

1. Record Nr.	UNINA9910869168403321
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Titolo	Proceedings of the 11th International Conference on Behaviour of Steel Structures in Seismic Areas : STESSA 2024 - Volume 1 // edited by Federico M. Mazzolani, Vincenzo Piluso, Elide Nastri, Antonio Formisano
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031628849 3031628845
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (1192 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 519
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Disciplina	691.7
Soggetti	Metals Building materials Geotechnical engineering Buildings - Design and construction Steel, Light Metal Geotechnical Engineering and Applied Earth Sciences Building Construction and Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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This volume highlights the latest advances, innovations, and applications in the field of seismic design and performance of steel structures, as presented by leading international researchers and engineers at the 11th International Conference on the Behaviour of Steel Structures in Seismic Areas (STESSA), held in Salerno, Italy, on July 8-10, 2024. It covers a diverse range of topics such as behaviour of structural members and connections, performance of structural systems, mixed and composite structures, energy dissipation systems, self-centring and low-damage systems, assessment and retrofitting, codes and standards, light-gauge systems. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.