Record Nr.	UNINA9910683346703321
Autore	Chastre Carlos
Titolo	Advances on testing and experimentation in civil engineering : materials, structures and buildings / / Carlos Chastre [and four others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer Nature Switzerland AG, , [2023] ©2023
ISBN	9783031238888 9783031238871
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (403 pages)
Collana	Springer Tracts in Civil Engineering , , 2366-2603
Discipling	624.0724
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: New trends on bio-cementation and self-healing testing Chapter 2: Testing durability on construction materials Chapter 3: Innovative durability tests on construction materials.
Sommario/riassunto	This book presents the most recent advances on testing and experimentation in civil engineering, especially in the branches of materials, structures, and buildings, complementing the authors' publication Advances on Testing and Experimentation in Civil Engineering - Geotechnics, Transportation, Hydraulics and Natural Resources. It includes advances in physical modelling, monitoring techniques, data acquisition and analysis, and provides an invaluable contribution to the installation of new civil engineering experimental facilities. The first part of the back covers the latest advances in the

1.

tests, dynamic tests, and long-term monitoring strategies, as well as laboratory tests of adhesive joints. Experimental tests on shake tables and blast-resistant structures are also described. Recent applications of drone technologies for the inspection and monitoring of civil structures are another important theme developed. Finally, in its third part, the book presents new developments in the characterisation of building testing, with the support of modelling, to assess building pathology and new requirements, acoustic comfort, fire safety, visual comfort, and energy consumption.