1. Record Nr. UNINA9910741141403321

Autore	Dissanayake Ranjith
Titolo	ICSBE 2022 : Proceedings of the 13th International Conference on Sustainable Built Environment / / edited by Ranjith Dissanayake, Priyan Mendis, Kolita Weerasekera, Sudhira De Silva, Shiromal Fernando, Chaminda Konthesingha, Pradeep Gajanayake
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819934713 9819934710
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (867 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 362
Altri autori (Persone)	MendisPriyan WeerasekeraKolita Sirinatha De SilvaSudhira FernandoShiromal KonthesinghaChaminda GajanayakePradeep
Disciplina	720.47
Soggetti	Sustainable architecture Environmental sciences - Social aspects Energy policy Buildings - Design and construction Sustainability Sustainable Architecture/Green Buildings Environmental Social Sciences Energy Policy, Economics and Management Building Construction and Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Effect of live load increment of old steel railway bridges in Sri Lanka -- Use of Markov chain method to predict service life of reinforced concrete bridge decks -- Thin-walled hollow steel box piers with energy dissipation mechanism under bi-directional cyclic loading -- Damage prediction by using nonlinearity of damping -- Effects of refined coconut oil and vegetable oil on the mechanical, thermal,

morphological, and biodegradable properties of cassava starch-based thermoplastic (tps) films -- Batch adsorption study for the removal of textile dyes from aqueous solutions using pandanus amaryllifolius (rampe) leaves -- Tea waste bio-char as an absorbent for the removal of pb(ii) in the industrial wastewater -- Mechanical recycling and valorisation of disposable face masks: a potential solution to the covid-19 waste issue -- Assessment of dispersion potential of discarded coconut fibres in concrete pavements -- Evaluation of thermal conductivity of concrete using finite element analysis -- Effect of carbonation on microstructure of cement pastes with different water-to-cement ratios -- Development of lightweight aggregate concrete with locally available lightweight materials -- Assessment of heat of hydration of high-strength concrete -- Critical selection factors for contractors to make bid/ no-bid decision in construction projects in Sri Lanka -- Cost control techniques on the delivery of sustainable construction projects in Sri Lanka.

Sommario/riassunto

This book highlights the latest knowledge and innovations in the fields of civil engineering and construction industry striving for a sustainable built environment. It consists of high quality and innovative research findings selected from the proceedings of the 13th ICSBE 2022 under the themes of sustainable construction, urban green infrastructure and planning, rainwater harvesting and water conservation, high-performance concrete, indoor environmental quality and indoor plants, wind and hydro-power energy, waste and wastewater management for enhanced sustainability, impacts of climate change, carbon footprint, global climate model and landscaping, material flows and industrial ecology, sustainable materials, etc.