1. Record Nr. UNINA9910299576103321

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Titolo	Multi-layer Pavement System under Blast Load / / by Jun Wu, Hao Wu, Hong Wei Andy Tan, Soon Hoe Chew
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-5001-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXVII, 218 p. 178 illus.)
Collana	Springer Tracts in Civil Engineering , , 2366-259X
Disciplina	625.8
Soggetti	Civil engineering Building materials Mechanics Mechanics, Applied Computer simulation Ceramics Glass Composite materials Transportation Civil Engineering Structural Materials Solid Mechanics Simulation and Modeling Ceramics, Glass, Composites, Natural Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Sommario/riassunto	This book proposes the concept of a multi-layer pavement system to fulfill the blast resistance requirement for pavement design. It also presents a damage pattern chart for multi-layer pavement design and rapid repair after blast load. Such a multi-layer system consists of three layers including asphalt concrete (AC) reinforced with Geogrid (GST) at the top, a high-strength concrete (HSC) layer in the middle, and engineered cementitious composites (ECC) at the bottom. A series of

	large-scale laboratory impact tests were carried out to prove the usefulness of this concept and show its advantages over other conventional pavement system. Furthermore, field blast tests were conducted to show the actual behavior of this multi-layer pavement system subjected to blast load under real-world conditions.

2. Record Nr. UNINA9910163012203321

Titolo	Emerging Trends in Electrical, Electronic and Communications Engineering : Proceedings of the First International Conference on Electrical, Electronic and Communications Engineering (ELECOM 2016), Bagatelle, Mauritius, November 25 -27, 2016 / / edited by Peter Fleming, Nalinaksh Vyas, Saeid Sanei, Kalyanmoy Deb
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXV, 354 p. 181 illus.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 416
Disciplina	621.382
Soggetti	Telecommunication Application software Electric power production Communications Engineering, Networks Computer and Information Systems Applications Electrical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Sommario/riassunto	The book reports on advanced theories and methods in two related engineering fields: electrical and electronic engineering, and communications engineering and computing. It highlights areas of global and growing importance, such as renewable energy, power systems, mobile communications, security and the Internet of Things

(IoT). The contributions cover a number of current research issues, including smart grids, photovoltaic systems, wireless power transfer, signal processing, 4G and 5G technologies, IoT applications, mobile cloud computing and many more. Based on the proceedings of the first International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM 2016), held in Voila Bagatelle, Mauritius from November 25 to 27, 2016, the book provides graduate students, researchers and professionals with a snapshot of the state-of-the-art and a source of new ideas for future research and collaborations.