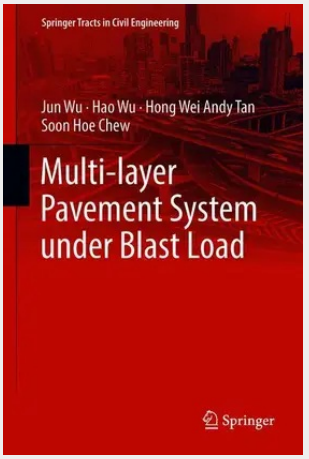
Wu / Tan / Chew

Multi-layer Pavement System under Blast Load



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.

Presents a new, multilayer, composite-pavement system that is resistant to blast loadProposes a damage-pattern chart for composite pavement design and rapid repair after blast loadInvestigates the blast resistance of the composite-pavement system using parametric studies

160,49 €
149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789811050008
Medium: Buch
ISBN: 978-981-10-5000-8
Verlag: Springer
Erscheinungstermin: 30.01.2018
Sprache(n): Englisch
Auflage: 1. Auflage 2018
Serie: Springer Tracts in Civil Engineering
Produktform: Gebunden
Gewicht: 547 g
Seiten: 218
Format (B x H): 160 x 241 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)