

1. Record Nr.	UNINA9910825562203321
Titolo	Sustainable winter road operations // edited by Xianming Shi, Liping Fu
Pubbl/distr/stampa	Hoboken, NJ : , : John Wiley & Sons, , 2018
ISBN	1-119-18515-7 1-119-18514-9 1-119-18516-5
Descrizione fisica	1 online resource (1 volume (unpaged))
Disciplina	625.7/63
Soggetti	Roads - Snow and ice control - Environmental aspects Roads - Maintenance and repair
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction to sustainable winter road maintenance / Xianming Shi and Liping Fu -- A framework for life-cycle sustainability assessment of road salt used in winter maintenance operations / Na Cui, Ning Xie and Xianming Shi -- Winter road operations : a historical perspective / Leland D. Smithson -- Societal and user considerations for sustainable winter road operations / David Veneziano and Laura Fay -- Sustainable winter road operations / Chris Albrecht, Ralph Patterson and Leigh Sturges -- The fundamentals of plowing, anti-icing, de-icing and sanding / Alex Klein-Paste and Rune Dalen -- Safety effects of winter weather and road maintenance operations / Taimur Usman -- Mobility effects of winter weather and road maintenance operations / Liping Fu and Tae J. Kwon -- Economic benefits of winter road operations / David Veneziano, Xianming Shi and Laura Fay -- Environmental risks of snow and ice control material / Laura Fay -- Impact of deicing chemicals on roadway infrastructure : risks and best management practices / Xianming Shi and Gang Xu -- Vehicle risks of winter road operations and best management practices / Mehdi Honarvar Nazari and Xianming Shi -- Strategic planning and management for sustainable WRM / Matthew Muresan, Tae J. Kwon, Liping Fu and Xianming Shi -- Source control tactics for sustainable winter road maintenance / Xianming Shi and Liping Fu -- 1) reactive approaches for environmentally sustainable

winter road operations / Xianming Shi, Eric Strecker and Scott Jungwirth -- Innovative winter maintenance equipment / William H. Schneider IV, William A. Holik and Mallory J. Crow -- Pavement treatments for winter maintenance / Xianming Shi, Jiang Huang and Zhengxian Yang -- The search for 'greener' materials for winter road maintenance operations / Xianming Shi, Scott Jungwirth and Daniel Stuart Hoffman -- Performance measures for sustainable winter road operations / Tina Greenfield -- Application guidelines for optimal deicing and anti-icing / S M Kamal Hossain, Matthew Muresan and Liping Fu -- A look into the future / Liping Fu and Xianming Shi.
