

1. Record Nr.	UNINA9911048825303321
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Titolo	Principles of pavement engineering / / Nick Thom (Lecturer, University of Nottingham, UK)
Pubbl/distr/stampa	Leeds, England : , : Emerald Publishing Limited, , [2024] ©2024
ISBN	9781835497104 9781835497128 9781835497111
Edizione	[Third edition.]
Descrizione fisica	1 online resource (448 pages)
Disciplina	625.8
Soggetti	Pavements - Design and construction Pavements - Maintenance and repair Road materials Technology & Engineering - Civil - General Highway and traffic engineering Civil engineering, surveying and building
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Prelims -- Introduction -- Design Principles -- Pavement Applications -- Traffic Loading -- Design Reliability -- Unbound Material -- Unbound Pavement - Structural Design -- Maintenance of Unsurfaced Pavements -- Asphalt -- Flexible Pavement - Structural Design -- Asphalt Surface Design -- Maintenance of Flexible Pavements -- Cold-mix Asphalt -- Cold-mix Asphalt Pavement - Structural Design -- Maintenance of Cold-mix Asphalt Pavements -- Hydraulically Bound Material -- Composite Pavement - Structural Design -- Maintenance of Composite Pavements -- Pavement-quality Concrete -- Rigid Pavement - Structural Design -- Concrete Surfaces -- Maintenance of Rigid Pavements -- Water Movement -- Drainage -- Pavement Monitoring and Evaluation -- Diagnosis and Prognosis -- Strengthening Design -- Pavement Management Systems -- Index.
Sommario/riassunto	Principles of Pavement Engineering, Third edition is an essential

reference on fundamental principles of pavement engineering, showing how to design, construct, evaluate and maintain pavements of all types. Over 27 chapters the book provides systematic coverage of the subject and in-depth analysis of principles underlying material behaviour, pavement design, and maintenance. This third edition has been comprehensively updated to cover recent industry developments including increased emphasis on sustainability, decarbonisation and climate change; as well as warm and cold-mix asphalts, non-standard bitumen additives, designing with stress-absorbing membrane interlayers, whole-life costing and improved methods for drainage design. The book features a complete reference on fundamental principles of pavement engineering; accessibly written, with ample use of explanatory diagrams, photographs, and chapter summaries to support understanding; worked examples throughout the text illustrate applications to practical problems; additional resources include access to an extensive collection of design calculation spreadsheets. *Principles of Pavement Engineering, Third edition* offers broad and applicable coverage of the subject making it a key reference for practising pavement engineers at all levels, as well as students and graduates.

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