# Contents

Preface xi

**GRiffiths, J. S. & Radford, T.** An introduction to earthworks in Europe 1

**Lamont, D.** Revision of BS 6031: Code of practice for earthworks 5

**Harris, A. J. & Bond, A. J.** Stability of earthworks to Eurocode 7 9

**Perry, J.** Geotechnical risk and performance: with a focus on earthworks compaction and data management 21

**Power, C. M., Patterson, D. A., Rudrum, D. M. & Wright, D. J.** Geotechnical asset management for the UK Highways Agency 33

**Parry, L. N.** The identification and management of cuttings at risk from deep-seated, delayed failure on the Highways Agency network 41

**Dapena, E. & Parrilla, A.** Spanish technical regulation for road construction 55

**Herle, V.** Czech standards and specification for earthworks 61

**Gomes Correia, A., Quibel, A. & Winter, M. G.** The work of ISSMGE TC3 (Geotechnics of pavements) and how it links to earthworks 67

**Rutty, P. C. & Johnston, T. P.** Optimum use of material: selection of limits for suitable earthworks fill: Irish experience 79

**Petkovšek, A. & Majes, B.** Overconsolidated clays and flysch for embankments in Slovenia 93

**Hodgson, I. F., Beales, S. P. & Curd, M. J.** Use of tyre bales as lightweight fill for the A421 improvements scheme near Bedford, UK 101

**Krest, F.** Use of industrial by-products in earthworks in the Czech Republic 109

**Macdonald, G. J., Vooght, A. R. & Parkin, S.** The use of deep counterfort drains as an effective method of stabilizing cuttings constructed in overconsolidated clays 115


**Macdonald, G. J., Vooght, A. R. & Parkin, S.** The use of soil moisture deficit as a trigger mechanism for targeted monitoring of earthworks slopes 141
| CONTENTS |
|-----------------|-----------------|
| TOLL, D. G., MENDES, J., GALLIPOLI, D., GLENDINNING, S. & HUGHES, P. N. Investigating the impacts of climate change on slopes: field measurements | 151 |
| O’RIORDAN, N. & PHEAR, A. Measuring and mitigating the environmental impact of earthworks and other geotechnical processes | 163 |
| PANTELIDOU, H., NICHOLSON, D., HUGHES, L., JUKES, A. & WELLAPPILI, L. Earthworks emissions in construction of a highway | 175 |
| Index | 181 |