

## Table of contents

Introduction	VII
<i>H.Brandl &amp; A.Gomes Correia</i>	
Preface	IX
<i>H.Brandl</i>	
<i>Compaction</i>	
Compaction of soil and other granular material - interactions	3
<i>H.Brandl</i>	
High embankments instead of bridges and bridge foundations in embankments (special lecture)	13
<i>H.Brandl</i>	
Compaction behaviour and depth effect of the Polygon-Drum	27
<i>D.Adam &amp; R.Markiewicz</i>	
Developments in compaction technology	37
<i>M.I.Pinard</i>	
The importance of optimum compaction of soil and other granular material	47
<i>H.Brandl</i>	
<i>Properties of geomaterials relevant for design and construction</i>	
Impacts on geotechnical engineering of several recent findings from laboratory stress-strain tests on Geomaterials (special lecture)	69
<i>F.Tatsuoka</i>	
Freezing-thawing behaviour of soil and other granular material – influence of compaction	141
<i>H.Brandl</i>	
Soil mechanics in routine and advanced pavement and rail track rational design	165
<i>A.Gomes Correia</i>	
Dynamic soil stiffness as quality criterion for soil compaction	189
<i>W.Kröber, E.h.R.Floss &amp; W.Wallrath</i>	

## *Embankments for high speed trains*

Characteristics of embankment vibrations due to high-speed train loading and some aspects of the design standard for high-speed links in Japan <i>M.Sunaga</i>	203
True-to-scale in situ tests determining dynamic performance of earthworks under high speed train loading <i>Th.Neidhart</i>	213
Modelling, monitoring and controlling the behaviour of embankments under high speed train loads <i>C.Madshus</i>	225
Low embankments on soft soil for highways and high-speed trains <i>H.Brandl</i>	239
Frost heave design of embankments for high-speed railways <i>S.M.I.Saarelainen</i>	259
Notes on specifications for railway embankments in high speed lines <i>R.F.Woldringh</i>	263
Geotechnics of rail track structures <i>H.Brandl</i>	271
Author index	289