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(Triangle?  $B_1=0.0$ ,  $B_2=$  ) The triangle that  
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must be subtract, because it is not from the  
total embankment area.  $q(2)=? \times H$ ,  $B_1. Z$   
 $=0.0$ ,  $B_2. Z = ? I_2(2)=$  (From . )  
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aggregates. Aggregate formation starts with the binding of mineral (clay) and organic (humus) colloids via bivalent ions, water, microbial filamentous growths, and plant, microbial, and invertebrate mucilages.

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years in the design of foundations. From the designer's point of view, the model considerably reduces the extent of the calculations connected with the numerical analysis of soil-structure interaction. The algorithms presented are geared for use on mini- and personal computers and can be used in any numerical method. A special

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Mindlin's foundation plates, interaction between neighbouring structures, actual values of physical constants of subsoils and natural frequencies and shapes of foundation plates. Today, researchers and engineers can choose from a wide range of soil models, some fairly simple and others very elaborate. However, the gap which



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has long existed between geomechanical theory and everyday design practice still persists. The present book is intended to suit the practical needs of the designer by introducing an efficient subsoil model in which the surrounding soil is substituted by certain properties of the structure-soil interface. When a more precise solution is

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required, a more sophisticated model form can be used. Its additional degrees of deformation freedom can better express the behaviour of layered or generally unhomogeneous subsoil. As a result, designers will find that this book goes some way towards bridging the above-mentioned gap between structural design

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This edited book's theme is organized as a part of the GeoMEast 2019 International Congress and Exhibition that was held in Cairo, Egypt, on November 10–14 2019. The editors like to express their deep appreciation and gratitude to the authors

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for their valuable contributions to the GeoMEast 2019 proceedings and to all session chairs and reviewers for their sincere efforts to make this book a reality. The editors are very grateful to have this opportunity to participate in organizing this GeoMEast 2019 conference and hope that this book theme is a valuable

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reference to the civil/geotechnical  
engineering community worldwide.

Seismic Performance of Soil-Foundation-  
Structure Systems presents invited papers  
presented at the international workshop  
(University of Auckland, New Zealand,  
21-22 November 2016). This international

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workshop brought together outstanding work in earthquake engineering that embraces a holistic consideration of soil-foundation-structure systems. For example, the diversity of papers in this volume is represented by contributions from the fields of shallow foundation in liquefiable soil, spatially distributed

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lifelines, bridges, clustered structures (see photo on front cover), sea floor seismic motion, multi-axial ground excitation, deep foundations, soil-foundation-structurefluid interaction, liquefaction-induced settlement and uplift with SFSI. A fundamental knowledge gap is manifested by the isolated manner geotechnical and

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Structural engineers work. A holistic consideration of soil-foundation-structures systems is only possible if civil engineers work collaboratively to the mutual benefit of all disciplines. Another gap occurs by the retarded application of up-to-date research findings in engineering design practices. Seismic Performance of Soil-



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Foundation-Structure Systems is the outcome from the recognized need to close this gap, since it has been observed that a considerable delay exists between published research findings and application of the principles revealed by the research. Seismic Performance of Soil-Foundation-Structure Systems will be

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helpful in developing more understanding of the complex nature of responses these systems present under strong earthquakes, and will assist engineers in closing the gaps identified above.

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