

2.2

- (a) Since the possible values of settlement for Pier 1 overlap partially with those of Pier 2, it is possible that both Piers will have the same settlement. Hence, the minimum differential settlement is zero.

The maximum differential settlement will happen when the settlement of Pier 2 is 10 cm and that of Pier 1 is 2 cm, which yields a differential settlement of 8 cm.

Hence, the sample space of the differential settlement is zero to 8 cm.

- (b) If the differential settlement is assumed to be equally likely between 0 and 8 cm, the probability that it will be between 3 and 5 cm is equal to

$$P = \frac{5 - 3}{8 - 0} = \frac{2}{8} = 0.25$$

Ang And Tang Solution Manual

Thomas Edie Hill



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to liquefaction They present the cost environmental and operational benefits specifications methodology and practical results of this cutting edge method Because transportation infrastructure such as ports and airports are required to operate even in the event of a large earthquake they must be resilient against liquefaction Through contributions from experts in academia and industry this book describes the discovery of construction defects at three airports in Japan and the subsequent project to repair and strengthen the ground using chemical grouting using environmentally friendly colloidal silica the first time this technique was used in Japan This book first describes chemical grouting and its benefits its specifications and field investigation results of its ground improvement performance Next it demonstrates a numerical and probabilistic method to model spatial variability in material properties of field data on improved ground Finally it explains a performance based verification for airport runway availability in terms of bearing capacity and runway flatness after a large earthquake Through its clear explanations this book enables readers to implement chemical grouting and enjoy the cost environmental access and operational benefits of this technique over traditional methodologies that would require temporary site closure and large scale excavation Because the concept and methodology described in this book are applicable to various geological geotechnical and seismological conditions depending on the location and structural and operational conditions depending on the infrastructure type this book is a useful resource for geotechnical and other infrastructure engineers who must strengthen the ground without disrupting normal operations

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