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Nota di contenuto	Liquefaction resistance of saturated sand -- Characterising undrained monotonic behaviour of saturated sand -- Characterising undrained behaviour of imperfectly saturated and unsaturated sands -- Analysis on triggering of soil liquefaction including effects of imperfect saturation -- Use of in situ sounding tests for evaluating soil liquefaction triggering -- Evaluating post-liquefaction settlement and lateral deformation -- Use of in situ sounding tests for evaluating stability of soil deposits subject to liquefaction. .
Sommario/riassunto	This book describes recent developments in soil liquefaction engineering and introduces more appropriate procedures than the current ones to evaluate triggering and consequences of soil liquefaction during earthquakes. The topics therefore cover all aspects

of soil behaviour following liquefaction during earthquakes. The contents start with new approaches and new findings on characterisation of liquefaction resistance and undrained shear strength of fully saturated, partially saturated, and unsaturated sand, which are fully based on laboratory tests. New approaches and findings are then described on the use of in situ sounding tests for characterising triggering and consequences of soil liquefaction, including post-liquefaction settlement, lateral spreading, and stability against flow slide. All the topics are accompanied by illustrative case history data from recent major earthquakes in Japan.