1. Record Nr. UNINA9910786764903321

Titolo	Wear and contact mechanics / / edited by Luis Rodriguez-Tembleque and Ferri Aliabadi
Pubbl/distr/stampa	Switzerland : , : Trans Tech Publications, , 2014 Switzerland : , : Trans Tech Publications Ltd, , [date of distribution not identified] ©2014
ISBN	3-03826-542-X
Descrizione fisica	1 online resource (247 p.)
Collana	Key Engineering Materials, , 1013-9826 ; ; Volume 618
Disciplina	621
Soggetti	Contact mechanics Contact mechanics - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes. "Special topic volume with invited peer reviewed papers only"--Cover.
Nota di contenuto	Wear and Contact Mechanics; Preface and Prologue; Table of Contents; The Influence of Equivalent Contact Area Computation in Extended Node to Surface Contact Elements; A Partitioned Formulation for FEM/BEM Coupling in Contact Problems Using Localized Lagrange Multipliers; On Steady Wear States for Monotonic Relative Sliding of Contacting Bodies; Anisotropic Contact and Wear Simulation Using Boundary Elements; Life Assessment in Fretting Fatigue Transient Dynamic Analysis of Cracked Multifield Solids with Consideration of Crack-Face Contact and Semi-Permeable Electric/Magnetic Boundary ConditionsBEM and Tangent Operator Technique Applied to Analysis of Contact Problems; Effect of Friction on the Size of the Near-Tip Contact Zone in a Penny-Shaped Interface Crack; Closed-Form Solution of the Frictional Sliding Contact Problem for an Orthotropic Elastic Half-Plane Indented by a Wedge-Shaped Punch; Nonlinear Time Spectral Analysis for a Dynamic Contact Model with Buckling for an Elastic Plate; Keywords Index; Authors Index
Sommario/riassunto	This special topic volume is a compilation of works contributed by experts from the international scientific community in the field of Wear

and Contact Mechanics. This volume presents ten papers that cover different aspects of the current areas of research in Wear and Contact Mechanics using new innovative theoretical and computational approaches based on the Finite Element Methods (FEM) and/or the Boundary Element Methods (BEM). A number of topics are addressed, such as anisotropic contact, anisotropic wear, crack-face contact and semi-permeable electric/magnetic boundary conditions in multif