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Fundamentals of Discrete Element Methods for Rock ...
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Element Method (FEM) along with common FEM terminology The

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Fundamentals of Finite Element Analysis Linear Finite Element Analysis 33 Discrete Equations for Piecewise Finite Element Approximation 59 - Strain Methods and the B-bar Method as a Special Case 377 127 A Concluding Remark for Multifield Elements 381 References 382

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Finite Element Methods (in Solid and Structural Mechanics) Spring 2014 Prof Glaucio H Paulino Donald Biggar Willett Professor of Engineering Acknowledgements: J Kim, Z Zhang, S Song, C Le and K Park Department of Civil and Environmental Engineering University of Illinois at Urbana-Champaign CEE570 / CSE 551 Class #1 1

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Abstract Discrete element method (DEM) has been extensively used in the laboratory of particulate and multiphase processing at the University of New South Wales (UNSW) to study the fundamentals of

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Department of Mechanical Engineering (Division WFW) 2 Department of Mathematics & Computer Science Eindhoven University of Technology Sept ember 1990 (WFW-report 90041)

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the structure The coupling of the finite and discrete element methods, which takes advantages of the two methods, is a promising approach to model such geotechnical engineering problems This thesis is devoted to develop a coupled Finite-Discrete element framework for soil-structure interaction analysis and

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[40] P G Ciarlet (1978), The Finite Element Method for Elliptic Prob-lems, North-Holland, Amsterdam [41] P G Ciarlet and P-A Raviart (1972), The combined effect of curved boundaries and numerical integration in isoparametric finite element methods, in The Mathematical Foundations of the Finite El-

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which we refer to as discrete energy Discrete energy can be used to recover potential energy easily More importantly, it is convenient to define additional constraints by formulating constrained minimization problems Xiangmin Jiao Finite Element Methods 4 / 17