a)

DEM
-Many particles
-Contact
-Rigid

b)

f_2

f_1

FEM
-Many elements
-Deformability

c)

Bonding

Bonding

FDEM
-Many particles
-Many elements
-Contact
-Deformability
-Fracture and fragmentation

Combined Finite Discrete Element Method

Soheil Mohammadi

Combined Finite Discrete Element Method:

The Combined Finite-Discrete Element Method Antonio A. Munjiza,2004-04-21 The combined finite discrete element method is a relatively new computational tool aimed at problems involving static and or dynamic behaviour of systems involving a large number of solid deformable bodies Such problems include fragmentation using explosives e g rock blasting impacts demolition collapsing buildings blast loads digging and loading processes and powder technology The combined finite discrete element method a natural extension of both discrete and finite element methods allows researchers to model problems involving the deformability of either one solid body a large number of bodies or a solid body which fragments e g in rock blasting applications a more or less intact rock mass is transformed into a pile of solid rock fragments of different sizes which interact with each other The topic is gaining in importance and is at the forefront of some of the current efforts in computational modeling of the failure of solids Accompanying source codes plus input and output files available on the Internet Important applications such as mining engineering rock blasting and petroleum engineering Includes practical examples of applications areas Essential reading for postgraduates researchers and software engineers working in mechanical engineering **The Combined Finite-Discrete Element Method** A. A. Mahmood,M. Elektorowicz,2018-04

The Combined Finite-Discrete Element Method Ante Munjiza,2004-04-02 The combined finite discrete element method is a relatively new computational tool aimed at problems involving static and or dynamic behaviour of systems involving a large number of solid deformable bodies Such problems include fragmentation using explosives e g rock blasting impacts demolition collapsing buildings blast loads digging and loading processes and powder technology The combined finite discrete element method a natural extension of both discrete and finite element methods allows researchers to model problems involving the deformability of either one solid body a large number of bodies or a solid body which fragments e g in rock blasting applications a more or less intact rock mass is transformed into a pile of solid rock fragments of different sizes which interact with each other The topic is gaining in importance and is at the forefront of some of the current efforts in computational modeling of the failure of solids Accompanying source codes plus input and output files available on the Internet Important applications such as mining engineering rock blasting and petroleum engineering Includes practical examples of applications areas Essential reading for postgraduates researchers and software engineers working in mechanical engineering **The Combined Finite-Discrete Element Method Applied to the Study of Rock Fracturing Behavior in 3D.** ,2011 Since its introduction the combined finite discrete element method FEM DEM has become an excellent tool to address a wide range of problems involving fracturing and fragmentation of solids Within the context of rock mechanics the FEM DEM method has been applied to many complex industrial problems such as block caving deep mining techniques rock blasting seismic waves packing problems rock crushing problems etc In the real world most of the problems involving fracture and fragmentation of solids are three dimensional problems With the aim of addressing these problems an

improved 2D 3D FEM DEM capability has been developed at Los Alamos National Laboratory LANL These capabilities include state of the art 3D contact detection contact interaction constitutive material models and fracture models In this paper Split Hopkinson Pressure Bar SHPB Brazilian experiments are simulated using this improved 2D 3D FEM DEM approach which is implemented in LANL s MUNROU Munjiza Rougier code The results presented in this work show excellent agreement with both the SHPB experiments and previous 2D numerical simulations performed by other FEM DEM research groups   Impact Fracture of Glass. The Combined Finite-Discrete Element Study Xudong Chen,2019-10-18 Scientific Study from the year 2019 in the subject Engineering Civil Engineering Suzhou University of Science and Technology language English abstract This book introduces theoretical and practical aspects for modelling the impact fracture of glass and laminated glass using the combined finite discrete element method FDEM The FDEM is a branch of the discrete element method DEM and combines finite element formulation into individual discrete elements Thus contact forces are evaluated more accurately Regarding the fracture of glass a Mode I based smeared crack model is extended and employed in the FDEM enabling crack initiation and propagation be captured naturally Based on the employed method and the crack model numerical examples on fracture of glass under both hard and soft impacts are presented and validated with data from computational and experimental sources The combined finite discrete element method is proven to be a reliable and robust tool for examining the impact fracture responses of glass   Computational Modeling of Masonry Structures Using the Discrete Element Method Sarhosis, Vasilis,Bagi, Katalin,Lemos, José V.,Milani, Gabriele,2016-06-09 The Discrete Element Method DEM has emerged as a solution to predicting load capacities of masonry structures As one of many numerical methods and computational solutions being applied to evaluate masonry structures further research on DEM tools and methodologies is essential for further advancement Computational Modeling of Masonry Structures Using the Discrete Element Method explores the latest digital solutions for the analysis and modeling of brick stone concrete granite limestone and glass block structures Focusing on critical research on mathematical and computational methods for masonry analysis this publication is a pivotal reference source for scholars engineers consultants and graduate level engineering students

The Development of a Combined Finite-discrete Element Model for Quasistatic Geotechnical Engineering Applications Hoang Kien Dang,2010   **Rock Fragmentation by Blasting** Pradeep K. Singh,Amalendu Sinha,2012-11-05 Rock Fragmentation by Blasting contains the papers presented at the 10th International Symposium on Rock Fragmentation by Blasting New Delhi India 26 29 November 2012 and represents the most advanced forum on blasting science and technology The contributions cover all major recent advancements in blasting and fragmentation from realistic tre   Space Decomposition Based Parallelisation Solutions for the Combined Finite-discrete Element Method in 2D. Tomas Lukas,2015

Analysis and Simulation of Contact Problems Peter Wriggers,Udo Nackenhorst,2006-08-15 Contact mechanics was and is an important branch in mechanics which covers a broad field of theoretical numerical and experimental investigations

In this carefully edited book the reader will obtain a state of the art overview on formulation mathematical analysis and numerical solution procedures of contact problems The contributions collected in this volume summarize the lectures presented during the 4th Contact Mechanics Interantional symposium CMIS held in Hannover Germany 2005 by leading scientists in the area of contact mechanics **Electrical Measuring Instruments and Measurements** S.C. Bhargava,2012-12-27 This book written for the benefit of engineering students and practicing engineers alike is the culmination of the author s four decades of experience related to the subject of electrical measurements comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions The unique feature of this book apart from covering the syllabi of various universities is the style of presentation of all important aspects and features of electrical measurements with neatly and clearly drawn figures diagrams and colour and b w photos that illustrate details of instruments among other things making the text easy to follow and comprehend Enhancing the chapters are interspersed explanatory comments and where necessary footnotes to help better understanding of the chapter contents Also each chapter begins with a recall to link the subject matter with the related science or phenomenon and fundamental background The first few chapters of the book comprise Units Dimensions and Standards Electricity Magnetism and Electromagnetism and Network Analysis These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters The last two chapters represent valuable assets of the book and relate to a Magnetic Measurements describing many unique features not easily available elsewhere a good study of which is essential for the design and development of most electric equipment from motors to transformers and alternators and b Measurement of Non electrical Quantities dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters Other useful features of the book include an elaborate chapter by chapter list of symbols worked examples exercises and quiz questions at the end of each chapter and extensive authors and subject index This book will be of interest to all students taking courses in electrical measurements as a part of a B Tech in electrical engineering Professionals in the field of electrical engineering will also find the book of use Development of a Three-dimensional Fracture Model for the Combined Finite-discrete Element Method Liwei Guo,2014 Discrete Element Methods Benjamin K. Cook,Richard P. Jensen,2002 Proceedings of the Third International Conference on Discrete Element Methods held in Santa Fe New Mexico on September 23 25 2002 This Geotechnical Special Publication contains 72 technical papers on discrete element methods DEM a suite of numerical techniques developed to model granular materials rock and other discontinua at the grain scale Topics include DEM formulation and implementation approaches coupled methods experimental validation and techniques including three dimensional particle representations efficient contact detection algorithms particle packing schemes and

code design Coupled methods include approaches to linking solid continuum and fluid models with DEM to simulate multiscale and multiphase phenomena Applications include fundamental investigations of granular mechanics micromechanical studies of powder soil and rock behavior and large scale modeling of geotechnical material processing mining and petroleum engineering problems   Advances in Civil Engineering II Xiang Dong Zhang,Hong Nan Li,Xia Ting Feng,Zhi Hua Chen,2012-12-13 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering and Transportation ICCET 2012 October 27 28 2012 Guilin China   **Discontinuum Mechanics** Soheil Mohammadi,2003 This graduate textbook introduces the mathematical and computational concepts of contact mechanics and applies the combined finite discrete element method to complex fracture and flow analysis Mohammadi civil engineering University of Tehran discusses normal contact algorithms the theory of frictional contact contact detection procedures object representation and methods for considering the load transfer in crack regions The CD ROM contains a limited version of the UTdem discrete element code The US office of WIT Press is Computational Mechanics Annotation 2004 Book News Inc Portland OR booknews com   Developments in Computational Techniques for Structural Engineering B. H. V. Topping,1995 Includes a selection of papers presented at the Sixth International Conference on Computing in Civil and Structural Engineering held at Cambridge England 28 30 August 1995   **8th International Conference on Mechanical and Physical Behaviour of Materials Under Dynamic Loading** J. Cirne,Richard Dormeval,2006   **Computational Mechanics of Discontinua** Antonio A. Munjiza,Earl E. Knight,Esteban Rougier,2011-10-13 Mechanics of Discontinua is the first book to comprehensively tackle both the theory ofthis rapidly developing topic and the applications that span a broad field of scientific and engineering disciplines from traditional engineering to physics of particulates nano technology and micro flows Authored by a leading researcher who has been at the cutting edge of discontinua simulation developments over the last 15 years the book is organized into four parts introductory knowledge solvers methods and applications In the first chapter a short revision of Continuum Mechanics together with tensorial calculus is introduced Also a short introduction to the finite element method is given The second part of the book introduces key aspects of the subject These include a diverse field of applications together with fundamental theoretical and algorithmic aspects common to all methods of Mechanics of Discontinua The third part of the book proceeds with the most important computational and simulation methods including Discrete Element Methods the Combined Finite Discrete Element Method Molecular Dynamics Methods Fracture and Fragmentation solvers and Fluid Coupling After these the reader is introduced to applications stretching from traditional engineering and industry such as mining oil industry powders to nanotechnology medical and science   **Encyclopedia of Computational Mechanics, 3 Volume Set** Erwin Stein,René de Borst,Thomas J. R. Hughes,2004-12-10 The Encyclopedia of Computational Mechanics provides a comprehensive collection of knowledge about the theory and practice of computational mechanics   **Extended Finite Element Method** Soheil Mohammadi,2008-03-31 Provides an introduction

to the concepts of extended finite element method XFEM for fracture analysis of structures as well as for other related engineering applications The book is self contained with summaries of both classical and modern computational techniques It also includes numerical examples describing various features of XFEM

Combined Finite Discrete Element Method: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. Combined Finite Discrete Element Method : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Combined Finite Discrete Element Method : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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