
Continuous And Discontinuous Modelling Of Fracture In Concrete Using Fem

continuous-discontinuous modelling of failure - continuous-discontinuous modelling of failure proefschrift ter verkrijging van de graad van doctor aan de technische universiteit delft, op gezag van de rector magnificus prof. dr. ir. j. t. fokkema, **continuous and discontinuous modelling of ductile fracture** - continuous and discontinuous modelling of ductile fracture proefschrift ter verkrijging van de graad van doctor aan de technische universiteit eindhoven, op gezag van de rector magnificus, prof.dr. c.j. van duijn, voor een commissie aangewezen door het college voor promoties in het openbaar te verdedigen op maandag 11 april 2005 om 16.00uur door **continuous-discontinuous modelling for regularised bulk** - abstract continuous-discontinuous modelling for quasi-brittle failure: propagating cracks in a regularised bulk elena tamayo-mas a new strategy to describe failure of quasi-brittle materials |concrete, for exam- **continuous/discontinuous finite element modelling of ...** - continuous/discontinuous finite element modelling of kirchhoff plate structures in r3 using tangential differential calculus ... as the continuous/discontinuous galerkin, or c/dg, method, first suggested by engel et al. [4], and further developed for ... we may directly use standard discontinuous galerkin tech- **continuous and discontinuous galerkin methods for ...** - 2 unified continuous and discontinuous galerkin methods high-order continuous galerkin (cg) methods were first proposed for the atmosphere by taylor et al. [15] in 1997 for the shallow water equations on the sphere. less than a decade later, the first high-order cg hydrostatic models began appearing [7,2]. **masonry micro-modelling adopting a discontinuous framework** - the results obtained using a non-linear continuous micro-model have been reported elsewhere, see pina-henriques and lourenço [1], and will be only briefly reviewed here. in [1] it is shown that continuum micro-models largely overestimate masonry micro-modelling adopting a discontinuous framework j. pina-henriques and paulo b. lourenço **the practical modelling of discontinuous rock masses with ...** - simulating discontinuous rock masses. through the development of special elements - joint elements (sometimes also known as interface elements) [1, 11, 12] - the continuum-based finite element method (fem) can also be applied to the modelling of discontinuous rock masses. these elements can have either zero thickness or thin, finite thickness. **continuous-discontinuous modelling of hygrothermal damage ...** - loading conditions. the modelling concept is generic, and therefore an extension towards different types of loading conditions is straightforward. the continuous-discontinuous predictions compare well with experimental data, demonstrating the potential to successfully tackle a wide range of real-life applications. **continuous and discontinuous modelling of cohesive ...** - modelling of localized damage and fracture in quasibrittle materials m. jirdsek 17 1 representation of localized deformation 17 1.1 kinematic description 17 1.2 constitutive models 19 1.3 numerical approximations 21 1.4 combined continuous-discontinuous description 22 2 elements with embedded localization zones 23 2.1 motivation 23 **from discontinuous to continuous f0 modelling in hmm-based ...** - discontinuous f0 modelling, of which msdhmm is a special case, and compares it to continuous f0 modelling. various aspects associated with continuous f0 modelling, the use of a single f0 stream, globally tied distributions (gtd) and the assumption of a continuous unvoiced f0, are discussed in theory and examined in experiments. **state-space average modelling of converters with ...** - converters operated in both the continuous and discontinuous conduction modes. this method has been very well received by the power electronics industry, in contrast to other approaches which give little or no insight into the design and behavior of the converter. the forte of state-space averaged modelling is that it is not only **analysis and modeling of buck converter in discontinuous ...** - figure 2. discontinuous inductor current operation and waveforms. equal to the input voltage. c1 operates in continuous mode that c1 is small during one switching cycle. thus, the average voltage across l over one switching cycle can be considered as the instantaneous voltage across c1. therefore, l2 is charging under constant voltage (v). **mechanical property characterization of discontinuous ...** - discontinuous fiber reinforced composites (frc), it can be used- being easy and less expensive to manufacture than continuous discontinuous fiber reinforced composites (frc). the objective of this thesis is to find out the behavior of discontinuous fiber reinforced composites under tensile, compressive and shear test. **discontinuous modelling of strain localisation and failure** - discontinuous modelling of strain localisation and failure proefschrift ter verkrijging van de graad van doctor aan de technische universiteit delft, op gezag van de rector magnificus prof. ir. k. f. wakker, voorzitter van het college van promoties, in het openbaar te verdedigen op 12 juni 2001 om 16.00uur door garth nathan wells **control of boost type converter in discontinuous ...** - the boost converter is operated in the continuous-conduction mode (ccm), there is a right half plane zero, which is difficult to be stable. the discontinuous conduction mode is desired for low power application. second, at light load, boost converter is difficult to regulate because pwm controller typical has certain minimum on time and the on **discontinuous modelling of crack propagation in a gradient ...** - a numerical model for the description of the combined continuous/discontinuous failure in a regularised strain-softening continuum is proposed. the continuum is regularised through the introduction of gradient terms into the constitutive equations. at the transition to discrete failure, the problem fields are enhanced through a

discontinu- **discontinuous modelling of shear bands using adaptive ...** - discontinuous modelling of shear bands using adaptive meshfree methods rabczuk t. university of canterbury, department of mechanical engineering, private bag 4800, christchurch, new zealand samaniego e. civil engineering school, universidad de cuenca, avda. 12 de abril, s/n, cuenca, ecuador abstract **a discontinuous galerkin method for cohesive zone modelling** - a discontinuous galerkin method for cohesive zone modelling peter hansbo and kent salomonsson department of mechanical engineering, j onk oping university, s-551 11 j onk oping, sweden abstract we propose a discontinuous nite element method for small strain elasticity allowing for cohesive zone modeling. the method yields a seamless transition ... **supervisory control of discontinuous systems: an hybrid ...** - discontinuous systems, like batch processes, closely link continuous and discrete aspects. the design of the control system must necessarily take this hybrid aspect into account. this leads to use hybrid modelling and has a consequence on the definition of the architecture of the control system. the control is all the more delicate since the **understanding and modelling variability in modulus and ...** - computationally-heavy, and uses a failure criterion which is suitable for continuous composites but does not account for the interaction between longitudinal and transverse failure modes which may happen in discontinuous composites. therefore, this study aims to develop a modelling framework to accelerate the design cycle with **methodology open access modelling recurrent events ...** - modelling recurrent events: comparison of statistical models with continuous and discontinuous risk intervals on recurrent malaria episodes data issaka sagara^{1,2*}, roch giorgi², ogobara k doumbo¹, renaud piarroux³ and jean gaudart² abstract background: recurrent events data analysis is common in biomedicine. literature review indicates that most **modelling mixed discrete-continuous domains for planning** - modelling mixed discrete-continuous domains for planning maria fox mariax@cisrath derek long derek.long@cisrath department of computer and information sciences university of strathclyde, 26 richmond street, glasgow, g1 1xh, uk abstract in this paper we present pddl+, a planning domain description language for modelling **averaged modeling of pwm converters operating in ...** - averaged modeling of pwm converters operating in discontinuous conduction mode jian sun, member, ieee, daniel m. mitchell, senior member, ieee, matthew f. greuel, philip t. krein, fellow, ieee, and richard m. bass, senior member, ieee abstract— various aspects of averaged modeling of hard-switching pulse-width modulated (pwm) converters ... **a general unified approach to modelling switching dc-to-dc ...** - a general unified approach to modelling switching dc-to-dc converters in discontinuous conduction mode i slobodan cuk and r. d. middlebrook california institute of technology ... regulators in continuous conduction mode of operation. in addition, they stay throughout modelling in the do ... **modeling nonwetting-phase relative permeability accounting ...** - modeling nonwetting-phase relative permeability accounting for a discontinuous nonwetting phase ulrich fischer,* olivier dury, hannes fliihler, and martinus th. van genuchten abstract a model for the wetting- and nonwetting-phase constitutive relationships is presented. the nonwetting-phase relative permeability in **the discontinuous conduction mode** - chapter 5. the discontinuous conduction mode 5 period, and the duty cycle. note that, since $d' \leq 1$, the minimum value of r_{crit} is $2l / ts$. therefore, if r understanding buck power stages mode power supplies - understanding buck power stages in switchmode power supplies 3 2 buck power stage steady-state analysis a power stage can operate in continuous or discontinuous inductor current mode. continuous inductor current mode is characterized by current flowing continuously in the inductor during the entire switching cycle in steady state operation. **a modelling study of discontinuous biological irrigation** - a modelling study of discontinuous biological irrigation ... radially-averaged profiles during discontinuous irrigation varied less than 15% from those with continuous irrigation for nearly all ... **hybrid modelling of a discontinuous dynamical system ...** - hybrid modelling of a discontinuous dynamical system including switching control eva m. navarro-lópez ... dynamical systems consisting of continuous-type and discrete-event dynamics. they merge formal computational tools, dy- ... discontinuous-induced bifurcations is made, the main goal is ... **continuous and discontinuous variation - biologymad** - continuous and discontinuous variation variation, the small differences that exist between individuals, can be described as being either discontinuous or continuous. discontinuous variation this is where individuals fall into a number of distinct classes or categories, and is based on features that cannot be measured across a complete range. **recent advances in continuous-discontinuous modelling of ...** - recent advances in continuous-discontinuous modelling of fracture antonio rodríguez-ferran^{*1}, montserrat casado-antolín¹, jordi feliu-fabà² and elena tamayo-mas³ 1 universitat politècnica de catalunya (upc-barcelonatech), barcelona, spain **joint modelling of voicing label and continuous f0 for hmm ...** - are continuous in voiced regions and undefined in unvoiced regions. multi-space distribution hmm (msdhmm) has been used for modelling the discontinuous f0. recently, a continuous f0 modelling framework has been proposed and shown to be effective, where continuous f0 observations are assumed to always exist and voicing la- **simulating masonry failure using continuous and ...** - simulating masonry failure using continuous and discontinuous damage models b. vandoren construction engineering research group, faculty of engineering technology, hasselt university, hasselt, belgium abstract: in this contribution we propose and compare two finite element models for modelling damage in masonry structures. **transition from discontinuous to continuous paste filling ...** - transition from discontinuous to continuous paste filling at cannington mine j li et al. 384 mine fill 2014, perth, australia figure 3 numerical

modelling provided ultimate capacity of 5 m wide walls having 0.2-0.6 m thick fibrecrete after 48 hours curing (re-plotted from revell et al. 2009) **1992-8645 modelling and simulation of switching frequency ...** - regulated one switch boost rectifiers operating at a boundary of continuous and discontinuous modes is modelled. proposed pwm and variable frequency control technique is used to reduce harmonics in the source current and also to regulate the output voltage. small signal modeling is done for the design of boost **3d geometric modelling of discontinuous fibre composites ...** - a geometrical modelling scheme is presented to produce representative architectures for discontinuous fibre composites, enabling downstream modelling of mechanical properties. the model generates realistic random fibre architectures containing high filament count bundles (>3k) and high (~50%) fibre volume fractions. **modelling of cracking in concrete tunnel lining by ...** - modelling of cracking in concrete tunnel lining by continuous-discontinuous approach f. zhang,s.k. hu and *j.l. feng state key laboratory for geomechanics and deep underground engineering **a 3d hp-adaptive discontinuous galerkin method for ...** - a 3d hp-adaptive discontinuous galerkin method for modeling ... to simulate dynamic rupture of earthquakes in three dimensions based on an hp-adaptive discontinuous galerkin method. we solve the velocity-stress weak formulation of elastodynamic equations on an unstructured ... on one hand the continuous finite element methods (fem), **bringing order to chaos: hybrid modelling of a ...** - 325 bringing order to chaos: hybrid modelling of a discontinuous chaotic system eva m. navarro-lo ´pez member, ieee, and juan g. barajas-ram ´irez abstract —we propose a computational-oriented perspective within the study of discontinuous chaotic systems, and provide **chapter 13 flyback converter, transformer design** - continuous current mode in the continuous mode, a larger inductor is required; this results in a lower peak current at the end of the cycle than in a discontinuous system of equivalent output power. the continuous mode demands a high current flowing through the switch during turn-on, and can lead to high switch dissipation. the continuous **continuous and discontinuous galerkin methods - ecmwf** - continuous and discontinuous galerkin methods . frank giraldo department of applied mathematics . naval postgraduate school . monterey ca 93943 usa . ecmwf seminar on . recent developments in numerical methods for atmosphere and ocean modelling . **1 discrete crack modelling of ductile fracture driven by non ...** - crack propagation, both continuous softening and discontinuous crack growth should ideally be used in a combined continuous–discontinuous model. the transition between the continuous and discontinuous models is made at complete, local failure of the continuous material. the **modelling mixed discrete-continuous domains for planning** - model continuous change within the durative action framework is also provided. pddl+ provides a more flexible model of continuous change through the use of autonomous processes and events. the modelling of continuous processes has also been considered by mcdermott (2005), herrmann and thielscher (1996), reiter (1996), shana- **system design, modeling, and simulation using ptolemy ii** - ptolemy ii models of continuous-time systems are similar to those used in simulink (from the mathworks), but ptolemy’s use of superdense time provides cleaner modeling of mixed signal and hybrid systems (lee and zheng,2007). this section focuses on how continuous dynamics are specified in a ptolemy ii model and how the continuous **2d finite element analysis of thermally bonded nonwoven ...** - materials: continuous and discontinuous models ... tinuousand discontinuous– are developedhere to describethe tensilebehaviourof nonwovenmaterials. ... behaviour of thermally bonded nonwovens by modelling the single fibre as a spar, and the bond points were modelled using solid ele- **stress corrosion cracking under low stress: continuous or ...** - stress corrosion cracking under low stress: continuous or discontinuous cracks? longkui k. zhua, yu yana, jinxu x. lia, lijie j. qiaoa,†, alex a. volinskyb,a a corrosion and protection center, key laboratory for environmental fracture (moe), university of science and technology beijing, beijing 100083, people’s republic of china bdepartment of mechanical engineering, university of south ... **existence of solution to supply chain models based on ...** - keywords. supply chains, front tracking, discontinuous ux ams. 90b10, 65mxx 1. introduction nowadays, di erent approaches to supply chain modeling exists. on the one hand there are queuing models and discrete event models, on the other hand continuous models similar to gas dynamics equations have been studied. recently, the modeling of supply

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