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August 4th, 2019 - A lot of recent developments have been made about adhesively bonded joints modeling using various methods of analysis The increasing application of adhesives in industry is partly due to the increased sophistication and reliability of adhesive joints modeling'

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'IOSR Journal

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'Juan Murcia Delso PhD PE

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'Structures and Architecture New concepts applications

December 23rd, 2019 - Edition 1st Edition First Published 2013 eBook Published 27 June 2013 Pub location London Analytic models of adhesively bonded steel glass beams Numerical analysis of sliding rigid beam column joints made from encased tubes for high rise structures"Publications NTU

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November 24th, 2019 - Coupled stress and energy failure models for adhesively bonded single lap joints In 2nd International Conference on Structural Adhesive Bonding 4 5 7 2013 University of Porto Porto Book of Abstracts S 23 Konferenzveröffentlichung'

'Evaluation of stress intensity factors in functionally

December 15th, 2019 - Abstract This paper is concerned with the numerical evaluation of the stress intensity factors SIFs of 2 D isotropic functionally graded materials FGMs by the natural element method more exactly Petrov Galerkin NEM'

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November 18th, 2019 - In addition of binding the patch to the cracked material adhesives play an important role in bonded composite repair because they make the bridge of transfer of loads between the patch and the cracked material Indeed any damage in adhesives will affect the efficiency and the performance of the repaired structure by composite patches In this'

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December 18th, 2019 - These occurrences raised the question of whether casing fatigue is a real problem even for shale plays This paper describes fatigue modeling and analysis of the casing connections during fracturing operations to provide additional information about this issue"Durability of FRP concrete bonded joints in structural
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The susceptibility of adhesives to alkaline and salt solutions was the subject of several studies e g'

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'Ermias Koricho Assistant Professor Georgia Southern
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'Wettability characterization and adhesion enhancement of
November 23rd, 2019 - Studying the wettability alteration of the surface of aluminum alloys subjected to the arc treatment revealed the wettability reduction over time Additionally it was found that there was a linear correlation between the contact angle value and the strength of adhesively bonded joints using two structural adhesives'
'Electrospun Piezoelectric Polymer Nanofiber Layers for
August 8th, 2018 - Moreover existing NDI techniques are unable to detect zero thickness interlaminar bond defects so called kissing and weak bonds likely to occur in composite adhesively bonded joints or composite laminate manufacturing Therefore development of new in situ health monitoring techniques is required'

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receiving attention as an alternative to mechanical joints in engineering applications'

'The Scientific World Journal Hindawi

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'Mardigian Library

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November 21st, 2019 - The influence of varying shim layers on the progressive damage failure of a composite component in a bolted composite aluminum aerospace structural assembly was investigated using a non linear three d imensional 3D structural solid elements assembled model of a carbon fiber reinforced polymer CFRP aluminum single lap joint with a titanium"Modelling Strategies for Simulating Delamination and

December 24th, 2019 - Modelling Strategies for Simulating Delamination and Matrix Cracking in Composite Laminates Blackman B R K Guild F J Kinloch A J Mode I fracture in adhesively bonded joints A mesh size independent modeling approach Michel L et al Modelling Strategies for Simulating Delamination and Matrix Cracking in Composite Laminates'

'Strength Prediction of Adhesively Bonded Joints 1st

January 9th, 2017 - Adhesively bonded joints provide many advantages over conventional mechanical fasteners and are increasingly receiving attention as an alternative to mechanical joints in engineering applications The traditional fasteners usually result in the cutting of fibers and hence the introduction of stress concentrations both of which reduce structural integrity'

'Structural Performance of Bolted Connections and

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