

NISA on the Web

Space Applications

1. [Development of a non destructive vibration technique for bond assessment of space shuttle tiles.](#) - Dr.Faissal A.Moslehy, P.E
2. [Design Tool For Inflatable Space Structures- Arthur L. Palisoc and Yuli Huang \(L'Garde, Inc.Tustin, California\)](#)
3. [Rapid Modeling and Analysis Tools](#)- Norman F.Knight and Thomas J.Stone
Veridian Systems Division,Chantilly , Virginia

Nuclear Applications

1. [Finite element stress analysis of spent nuclear fuel disposal canister in a deep geological repository](#)-KWON Young Joo ; CHOI Jong Won
(Department of Mechano-Informatics & Design Engineering, Hongik University, 34 Shinanri, Chochiwoneup, Yeonki-gun, Choongnam 339-701, COREE, REPUBLIQUE DE Korea Atomic Energy Research Institute, COREE, REPUBLIQUE DE)
2. [Seismic design considerations of nuclear fuel cycle facilities](#)

Composites

1. [LIGHTWEIGHT CONSTRUCTION FOR ADVANCED SHIPBUILDING – RECENT DEVELOPMENT](#)- P. Noury*, B. Hayman, D. McGeorge and J. Weitzenböck
2. [Carbon fiber/epoxy wheels developed to replace metal wheels on large freight trailers Semi-trailers roll lighter with Prins Dokkum\'s carbon fiber Dynawheels](#)- Dale Brosius, Contributing Writer Composites Technology
3. [Linear static analysis of composite hat-stiffened laminated shells using finite elements](#)- B. Gangadhara Prusty Department of Maritime Engineering, Australian Maritime College, Launceston-7250, Australia

4. [Effects of Battle Damage Repair on the Natural Frequencies and Mode Shapes of Curved Rectangular Composite Panels](#).- Goodwin, William P.
5. [Sandwich plates-free vibrations and damping analysis](#)- A. Muc and P. Zuchara
6. [Orbital Stress Analysis—Part I: Simulation of Orbital Deformation Following Blunt Injury by Finite Element Analysis Method](#)- Jihad Al-Sukhun PhD, MSc, BDS
7. [A new approach to static and dynamic analysis of composite plates with different boundary conditions](#)- M. R. Khalili^a, K. Malekzadeh^b and R. K. Mittal
8. [Classical coupled thermoelasticity in laminated composite plates based on third-order shear deformation theory](#)-Kamran Daneshjo and Morteza Ramezani(Department of Mechanical Engineering, Iran University of Science and Technology, P.O. Box 16844, Narmak, Tehran, Iran)
9. [Wing instability of a full composite aircraft](#)-Mahmood M. Shokrieh and Fathollah Taheri Behrooz (Mechanical Engineering Department, Iran University of Science and Technology, Narmak, Tehran 16844, Iran)
10. [Coupled thermoelasticity in laminated composite plates based on Green–Lindsay model](#)-Kamran Daneshjoo and Morteza Ramezan (Mechanical Engineering Department, Iran University of Science and Technology, Narmak, Tehran, Iran
Structural Department of Advanced Electronic Research Center, Pasdaran, Tehran, Iran)
11. [Classical coupled thermoelasticity in laminated composite plates based on third-order shear deformation theory](#)-Kamran Daneshjo and Morteza Ramezani(Department of Mechanical Engineering, Iran University of Science and Technology, P.O. Box 16844, Narmak, Tehran, Iran)
12. [Free Vibrational Responses of FRP Composite Plates: Experimental and Numerical Studies](#)-S. Chakraborty M. Mukhopadhyay (Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur, 721302, India)

13. [Optimum design of composite laminates with STROPT](#)-S. Belsare, M. Haririan
Engineering Mechanics Research Corporation, 1607 East Big Beaver Road, Troy, Michigan, U.S.A.
14. [NON-LINEAR ANALYSIS WITH AN AXISYMMETRIC THICK SHELL ELEMENT](#)-R. V. RAVICHANDRAN *, A. VENKATESH (Engineering Mechanics Research Corporation, P.O. Box 696, Troy, MI 48099, U.S.A.)
15. [Sensing of delamination in laminated composite beams using multiple magnetostrictive patches](#)-Eslavath, Saidha and Naik, Narayana G and Gopalakrishnan, S and Kumar, M (2003) Sensing of delamination in laminated composite beams using multiple magnetostrictive patches. In Mohan, S and Dattaguru, B and Gopalakrishnan, S,(Eds. Proceedings SPIE: Smart Materials, Structures, and Systems, pages Vol.5062, 691-699, Bangalore, India.)
16. [Towards a Rational Failure Criterion for Unidirectional Composite Laminae](#)- A. V. Krishna Murty ; G. Narayana Naik a; S. Gopalakrishnan (Department of Aerospace Engineering, Indian Institute of Science, Bangalore, India)
17. [Sandwich plates-free vibrations and damping analysis](#)-A. Muc and P. Zuchara
18. [ADHESIVE BONDING TECHNOLOGIES FOR AUTOMOTIVE STRUCTURAL COMPOSITES](#)-OAK RIDGE NATIONAL LABORATORY
19. [Effects of Stacking Sequence on the Impact Damage Resistance of Composite Laminates](#)-Edgar Fuoss B. A. Sc. (Engineer~gP hysics) (Department of Mechanical and Aerospace Engineering The Ottawa-Carleton Institute for Mechanical and Aerospace Engineering Carleton University Ottawa, Ontario, Canada)
20. [Buckling and failure analysis of FRP faced sandwich plates](#)-A. Muc and P. Zuchara (Institute of Mechanics and Machine Design, Cracow University of Technology, ul. Warszawska 24, 31-155, Kraków, Poland)
21. [Optimum Design and development of a cost effective pultruded hybrid composite mast](#)- Mahir Hassan (Dalhousie University-Daltech)

22. [Application of Differential Quadrature Method to the Analysis of Delamination Buckling of Laminated Composites](#)-Shapour Moradi (Dalhousie University-Daltech)

Aerospace Applications:

1. [Correlation/Validation of Finite Element Code Analyses for Vibration Assessment of Avionic Equipment](#).- Bhungalla, Amar ; Kurylowich, George (WRIGHT RESEARCH AND DEVELOPMENT CENTER WRIGHT-PATTERSON AFB OH)
2. [Structural and Vibrational Analysis of a Plastic Annular Wind Tunnel Parachute Model](#)-Benney, Richard J (ARMY NATICK RESEARCH DEVELOPMENT AND ENGINEERING CENTER MA)
3. [Finite Element Analysis of a Rudder](#)-Harish Mukundan (Department of Ocean Engineering Indian Institute of Technology, Madras)
4. [FAA-NASA Symposium on the Continued Airworthiness of Aircraft Structures](#) -FAA Center of Excellence in Computational Modeling of Aircraft StructuresAtlanta, Georgia

General

1. [Experimental and finite element prediction of bursting pressure in compound cylinders](#)-G.H. Majzoobi G.H. Farrahi, M.K. Pipelzadeh and A. Akbari (Faculty of Engineering, Bu- Ali Sina university, Hamadan, Iran)
2. [An incremental approach for large displacement response of structures subjected to dynamic loads](#) - V. Ramamurti S. Rajarajan and G. Venkateswara Rao
3. [Vibration Energy Flow Analysis in Randomly Parametered Coupled Plate Structures using Green's Function Coupling Technique](#)
4. Experimental comparison of dynamic FEA results of a permanent magnet brushless DC linear motor- G. Abdou; W. Tereshkovich

5. [Finite Element Analysis and Reliability Assessment of Spherical LPG Storage Tank](#)- K Ramaneyulu, A Husain, Dr D K Sehgal, Dr S Ahmad,
6. [Simulation for Compressive Behavior of Cartons](#)-Hironobu Hirano, Takao Kobayashi and Isao Kodaka(Pulp and Paper Research Lab. Oji Paper Co., Ltd.)
7. [RESIDUAL STRESSES DUE TO WELDING OF A NOZZLE TO A PRESSURE VESSEL](#)- Linda Karlsson
8. [Reconstruction of Orbital Wall Fracture An experimental and clinical study](#)- Risto Kontio (Departments of Oral and Maxillofacial Surgery Helsinki University Central Hospital)
9. [Orbital stress analysis--Part I: Simulation of orbital deformation following blunt injury by finite element analysis method.](#)- Al-Sukhun J, Kontio R, Lindqvist C.(Department of Oral and Maxillofacial Surgery, Helsinki University Central Hospital, Kasarmikatu 11-13, PO Box 263, 00029 HUS, Helsinki, Finland.)
10. [Thermal stress analysis of the parting plane flange joint of an industrial steam turbine](#)- R S ALWAR¹, S SRINIVASARAO² (¹ Indian Institute of Technology, Madras, India² BHEL, Hyderabad, India)

Fatigue

1. [A New Approach to Structural Reliability in Fatigue Failure](#). -Nemat-Nasser, Sia ; Zarka, Joseph (CALIFORNIA UNIV SAN DIEGO LA JOLLA DEPT OF APPLIED MECHANICS AND ENGINEERINGSCIENCES)
2. [EXPERIMENTAL AND NUMERICAL ANALYSIS OF LOW CYCLE FATIGUE OF SPOT-WELDED JOINTS UNDER PEEL-TENSION LOADING](#)-Alireza Gowhari-Anaraki †, Mohammad K. Pipelzadeh* and Stephen J. Hardy (Department of Mechanical Engineering, Iran University of Science & Technology, Tehran, Iran)
3. [Carbon fiber/epoxy wheels developed to replace metal wheels on large freight trailers Semi-trailers roll lighter with Prins Dokkum's carbon fiber Dynawheels.](#)- Dale Brosius, Contributing Writer Composites Technology

Marine Applications

1. [Finite element analysis of ship structures using a new stiffened plate element](#)-Y. V. Satish Kumar and M. Mukhopadhyay (Department of Ocean Engineering and Naval Architecture, Indian Institute of Technology, Kharagpur 721 302, India)

2. [Finite Element Analysis of Ship Structures](#)-J Ramanujam, C G Nandakumar,
3. [LIGHTWEIGHT CONSTRUCTION FOR ADVANCED SHIPBUILDING – RECENT DEVELOPMENT](#)-P. Noury*, B. Hayman, D. McGeorge and J. Weitzenböck
4. [Finite Element Analysis of a Rudder](#)-Harish Mukundan (Department of Ocean Engineering Indian Institute of Technology, Madras)
5. [Investigations on Internally Ring-Stiffened Joints of Offshore Platforms-T. S. Thandavamoorthy](#), Deputy Director(Structural Engineering Research Centre, Madras, CSIR Campus, Tharamani, Chennai 600 113, Tamil Nadu, India)
6. [Finite element analysis of ship structures using a new stiffened plate element](#)-Y. V. Satish Kumar and M. Mukhopadhyay(Department of Ocean Engineering and Naval Architecture, Indian Institute of Technology, Kharagpur 721 302, India)
7. [Structural Capacity of Hull Girder](#)-Lars Peter Neilsen (Department of Naval Architecture and Offshore Engineering Technical University of Denmark-Lyngby)
8. [LIGHTWEIGHT CONSTRUCTION FOR ADVANCED SHIPBUILDING – RECENT DEVELOPMENT](#)- P. Noury*, B. Hayman, D. McGeorge and J. Weitzenböck

Automotive applications

1. [Structural Analysis of a Tracked Vehicle Hull](#)-M.Mala (Combat Vehicles Research & Development Establishment) N.Shivaprasad (Indian Institute of Technology-Madras)