Rakesh K Kapania

List of Publications by Year
in descending order

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436	5,538	126858	143943
papers	citations	33 h-index	57 g-index

443	443	443	1831
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Buckling and Prestressed Vibrations of Periodic Nonprismatic Beams Using Integral Equation Approach. AIAA Journal, 2022, 60, 925-937.	1.5	1
2	Isogeometric Thermal Buckling and Sensitivity Analysis of Periodically Supported Laminated Composite Beams. AIAA Journal, 2022, 60, 3215-3224.	1.5	5
3	3D-Photogrammetric Modal Testing and Data Analysis of a Cantilevered Inflatable Wing. , 2022, , .		2
4	Quantitative biophysical metrics for rapid evaluation of ovarian cancer metastatic potential. Molecular Biology of the Cell, 2022, 33, mbcE21080419.	0.9	4
5	Intelligent Support System for Mixed Fidelity Finite Element Modeling Error Prediction using Decision Trees and Fuzzy Logic Classifier. , 2022, , .		0
6	Thermo-Mechanical Analysis of Residual Stresses and Distortions of Models Fabricated Using Additive Manufacturing. , 2022, , .		0
7	Parametric Model Order Reduction for Buckling Constraint Evaluation in Structural Optimization. , 2022, , .		0
8	Buckling Analysis of Functionally Graded Plates Using Isogeometric Finite Element Method and ABAQUS. , 2022, , .		1
9	Development of Deep Convolutional Neural Network for Structural Topology Optimization. , 2022, , .		2
10	Analyzing thermal buckling in curvilinearly stiffened composite plates with arbitrary shaped cutouts using isogeometric level set method. Aerospace Science and Technology, 2022, 121, 107350.	2.5	18
11	Buckling Analysis and Optimization of Stiffened Variable Angle Tow Laminates with a Cutout Considering Manufacturing Constraints. Journal of Composites Science, 2022, 6, 80.	1.4	5
12	Single Cell Forces after Electroporation. ACS Nano, 2021, 15, 2554-2568.	7.3	20
13	Distributed Design Optimization of Large Aspect Ratio Wing Aircraft with Rapid Transonic Flutter Analysis in Linux. , 2021, , .		4
14	Analysis, Design, and Experiments of Metal Flat Plate and Foam Airfoil Flutter Test Articles. , 2021, , .		1
15	Structural and Aeroelastic Design, Analysis, and Experiments of Inflatable Airborne Wings. , 2021, , .		4
16	Two-level Weight Optimization of Composite Laminates using Integer Programming. , 2021, , .		0
17	ALGA: Active Learning-Based Genetic Algorithm for Accelerating Structural Optimization. AIAA Journal, 2021, 59, 330-344.	1.5	8
18	Development of an Artificial Intelligence System to Design of Structures using Reinforcement Learning: Proof of Concept. , 2021, , .		2

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19	Cell Fragment Formation, Migration, and Force Exertion on Extracellular Mimicking Fiber Nanonets. Advanced Biology, 2021, 5, e2000592.	1.4	5
20	Skin-Stringer Assembly Using Radial Basis Functions for Curvilinearly Stiffened Panels. AIAA Journal, 2021, 59, 1125-1133.	1.5	2
21	Accelerated optimization of curvilinearly stiffened panels using deep learning. Thin-Walled Structures, 2021, 161, 107418.	2.7	23
22	Approximations for Stress-Intensity Factors and Crack Propagation of Box Beams. AIAA Journal, 2021, 59, 1352-1360.	1.5	0
23	Effect of Aeroelastic Tailoring of Composite Skin Laminates on Modal Controllability/Observability of Aircraft Structures. , 2021, , .		0
24	Effect of extreme in-plane and transverse stiffness ratios on frequencies and load transfer between face sheets and core of rectangular sandwich plates. Composite Structures, 2021, 278, 114730.	3.1	2
25	A sensitivity-based nonlinear finite element model updating method for nonlinear engineering structures. Applied Mathematical Modelling, 2021, 100, 632-655.	2.2	13
26	Static In-Plane Buckling of Honeycomb-Polymer Sandwich Structure Cores. , 2021, , .		0
27	Lightweight Chassis Design of Hybrid Trucks Considering Multiple Road Conditions and Constraints. World Electric Vehicle Journal, 2021, 12, 3.	1.6	3
28	Stochastic critical stress intensity factor response of single edge notched laminated composite plate using displacement correlation method. Mechanics of Advanced Materials and Structures, 2020, 27, 1223-1237.	1.5	7
29	Actuator energy and drag minimization of a blended-wing-body with variable-camber continuous trailing-edge flaps. Engineering Optimization, 2020, 52, 1561-1587.	1.5	4
30	Thermal buckling of curvilinearly stiffened laminated composite plates with cutouts using isogeometric analysis. Composite Structures, 2020, 238, 111881.	3.1	75
31	Buckling and Vibrations of Periodically Supported Non-Prismatic Columns using an Integral Equation Approach. , 2020, , .		0
32	Bioenergetics underlying single-cell migration on aligned nanofiber scaffolds. American Journal of Physiology - Cell Physiology, 2020, 318, C476-C485.	2.1	21
33	Up to lowest 100 frequencies of rectangular plates using Jacobi polynomials and TSNDT. Journal of Sound and Vibration, 2020, 480, 115352.	2.1	5
34	Force-exerting perpendicular lateral protrusions in fibroblastic cell contraction. Communications Biology, 2020, 3, 390.	2.0	22
35	Free Vibration of Thick Quadrilateral Laminates Using Third-Order Shear-Normal Deformation Theory. AIAA Journal, 2020, 58, 4580-4594.	1.5	4
36	Acoustic Analysis and Test Correlation of Direct Field Acoustic Test Configuration. , 2020, , .		0

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37	Controllability Gramian as Control Design Objective in Aircraft Structural Design Optimization. AIAA Journal, 2020, 58, 3199-3220.	1.5	11
38	Modeling, Design, and Flight Testing of Three Flutter Controllers for a Flying-Wing Drone. Journal of Aircraft, 2020, 57, 615-634.	1.7	13
39	Incorporating Flight Dynamics and Control Criteria into MDAO of Composite Aircraft. , 2020, , .		4
40	Free Vibration of Thick Laminated Quadrilateral Plates Using TSNDT. , 2020, , .		0
41	Structural Optimization of a Novel Flying Wing Supersonic Aircraft Configuration. , 2020, , .		1
42	Fuel Weight Minimization for Large N+3 Composite Transports with Multiple Control Surfaces. , 2020, , .		3
43	Lowest Twelve Frequencies of Sandwich Plates Using Third-Order Shear-Normal Deformation Theory. AIAA Journal, 2020, 58, 1821-1835.	1.5	4
44	Nonintrusive Computation of Rigid-Body/Flexible-Body Coupling Integrals. AIAA Journal, 2020, 58, 2330-2338.	1.5	0
45	Vibration of Curvilinearly Stiffened Plates Using Ritz Method With Orthogonal Jacobi Polynomials. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.0	8
46	Analysis of Stresses in Metal Sheathed Thermocouples in High-Temperature, Hypersonic Flows. , 2020, , .		1
47	Failure of Hexagonal and Triangular Honeycomb Core Sandwich Panels. AIAA Journal, 2020, 58, 4923-4940.	1.5	8
48	Inositol polyphosphate multikinase is a metformin target that regulates cell migration. FASEB Journal, 2019, 33, 14137-14146.	0.2	16
49	Buckling Load Maximization of Curvilinearly Stiffened Tow-Steered Laminates. Journal of Aircraft, 2019, 56, 2272-2284.	1.7	5
50	Interference Drag Associated with Engine Locations for Multidisciplinary Design Optimization. , 2019, , .		1
51	Failure of Alternate Honeycomb Core Sandwich Panels. , 2019, , .		1
52	Numerical Prediction of Interference Drag of a Strut-Surface Intersection in Supersonic Flow. , 2019, , .		2
53	Prestressed Vibration of Stiffened Variable-Angle Tow Laminated Plates. AIAA Journal, 2019, 57, 2575-2593.	1.5	38
54	Bilevel Programming Weight Minimization of Composite Flying-Wing Aircraft with Curvilinear Spars and Ribs. AIAA Journal, 2019, 57, 2594-2608.	1.5	21

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55	Thermal Buckling Analysis and Optimization of Curvilinearly Stiffened Plates with Variable Angle Tow Laminates. Journal of Spacecraft and Rockets, 2019, 56, 1189-1204.	1.3	30
56	Investigation of Controllability Gramian as Control Objective in MDAO Framework. , 2019, , .		3
57	Component data assisted finite element model updating of composite flying-wing aircraft using multi-level optimization. Aerospace Science and Technology, 2019, 95, 105486.	2.5	18
58	Hybrid Optimization of Curvilinearly Stiffened Shells Using Parallel Processing. Journal of Aircraft, 2019, 56, 1068-1079.	1.7	14
59	Structural Optimization of Internal Structure of Aircraft Wings with Curvilinear Spars and Ribs. Journal of Aircraft, 2019, 56, 707-718.	1.7	11
60	Effect of Centrifugal Stiffening on the Natural Frequencies of a Flexible Drone in Roll Maneuvers. , 2019, , .		0
61	Acoustic Analysis of Spacecraft Cavities using the Boundary Element Method. , 2019, , .		1
62	Crush Dynamics and Shear Failure of Alternate Sandwich Panel Honeycomb Core for Space Structures. , 2019, , .		2
63	Structural Design and Optimization of Commercial Vehicles Chassis under Multiple Load Cases and Constraints. , 2019, , .		3
64	Self-Learning, Adaptive Software for Aerospace Engineering Applications: Example of Oblique Shocks in Supersonic Flow. , 2019, , .		0
65	Finite Element Model Updating of Composite Flying-wing Aircraft using Global/Local Optimization. , 2019, , .		10
66	Flight-Dynamics and Flutter Analysis and Control of an MDAO-Designed Flying-Wing Research Drone. , 2019, , .		10
67	Rapid Transonic Flutter Analysis for Aircraft Conceptual Design Applications. AIAA Journal, 2018, 56, 2389-2402.	1.5	20
68	Thermal buckling analysis of periodically supported composite beams using Isogeometric analysis. , 2018, , .		7
69	On the Use of Classical Jacobi Orthogonal Polynomials in the Ritz Method. , 2018, , .		3
70	Application of Load Updating to a Complex Three Dimensional Frame Structure. , 2018, , .		0
71	BLP Optimization of Composite Flying-wings with SpaRibs and Multiple Control Surfaces. , 2018, , .		8
72	Optimal Design of Tow-Steered Composite Laminates with Curvilinear Stiffeners. , 2018, , .		7

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73	Aeroelastic Control-Oriented Modeling of an Airbreathing Hypersonic Vehicle. Journal of Guidance, Control, and Dynamics, 2018, 41, 1136-1149.	1.6	13
74	On the formulation of a high-order discontinuous finite element method based on orthogonal polynomials for laminated plate structures. International Journal of Mechanical Sciences, 2018, 149, 530-548.	3.6	12
75	Structural Optimization of Truck Front-Frame Under Multiple Load Cases. , 2018, , .		2
76	Alternate Sandwich Panel Core for Space Structures. , 2018, , .		1
77	Vibration of Curvilinearly Stiffened Plates Using Ritz Method With Orthogonal Jacobi Polynomials. , 2018, , .		0
78	Thermo-mechanical Buckling of Curvilinearly Stiffened Variable Angle Tow Laminated Panels. , 2018, , .		4
79	Multiobjective Optimization of Composite Flying-wings with SpaRibs and Multiple Control Surfaces. , 2018, , .		2
80	Non-Intrusive Computation of Rigid-Body/Flexible-Body Coupling Integrals. , 2018, , .		2
81	Development of Longitudinal Flight Dynamics Analysis Framework with Controllability and Observability Metrics. , 2018, , .		3
82	Elastic Axis Determination and Extraction of Vibration Mode Shapes of a Light Weight Composite Aircraft. , 2018, , .		4
83	Nonstationary Random Vibration Analysis of Wing with Geometric Nonlinearity Under Correlated Excitation. Journal of Aircraft, 2018, 55, 2078-2091.	1.7	15
84	Identification of Symmetrical Structures with Fabrication and Damage Induced Asymmetry. Lecture Notes in Civil Engineering, 2018, , 683-693.	0.3	0
85	Aeroelastic Applications of a Variable-Geometry Raked Wingtip. Journal of Aircraft, 2017, 54, 62-74.	1.7	6
86	Equivalent constitutive behavior of sandwich cellular cores. Journal of Sandwich Structures and Materials, 2017, 19, 424-455.	2.0	14
87	SpaRibs Geometry Parameterization for Wings with Multiple Sections using Single Design Space. , 2017, , .		3
88	Conceptual Design of Complex Transonic Aircraft Configurations with Flutter Prediction. , 2017, , .		7
89	Integrated Aircraft Parametric Structural & Outer Mold Line Geometry Modeling Software. , 2017, , .		3
90	Optimal Design of Curvilinearly Stiffened Shells. , 2017, , .		6

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91	Honeycomb Core Buckling Due to Transverse Compression. , 2017, , .		0
92	Multidisciplinary Design Analysis and Optimization of Performance Adaptive Aeroelastic Wings. , 2017, , .		21
93	Finite Element Model Updating of A Small Flexible Composite UAV. , 2017, , .		7
94	State Variance-Based Approach to Flight Dynamic Constraints in Multidisciplinary Design Optimization. Journal of Guidance, Control, and Dynamics, 2017, 40, 1206-1220.	1.6	2
95	Non-stationary random vibration analysis of structures under multiple correlated normal random excitations. Journal of Sound and Vibration, 2017, 400, 481-507.	2.1	14
96	Global-local Aeroelastic Optimization of Internal Structure of Transport Aircraft wing. , 2017, , .		10
97	Stochastic Fracture Response and Crack Growth Analysis of Laminated Composite Edge Crack Beams Using Extended Finite Element Method. International Journal of Applied Mechanics, 2017, 09, 1750061.	1.3	18
98	Static Aeroelastic Optimization of Aircraft Wing with Multiple Surfaces. , 2017, , .		10
99	Vibration Analysis of Curvilinearly Stiffened Composite Panel Subjected to In-Plane Loads. AIAA Journal, 2017, 55, 981-997.	1.5	23
100	Stochastic extended finite element implementation for fracture analysis of laminated composite plate with a central crack. Aerospace Science and Technology, 2017, 60, 131-151.	2.5	20
101	An Optimization Framework for Curvilinearly Stiffened Composite Pressure Vessels and Pipes. , 2017, , .		2
102	Service ORiented Computing EnviRonment (SORCER) for deterministic global and stochastic aircraft design optimization: part 2. Advances in Aircraft and Spacecraft Science, 2017, 4, 317-334.	0.5	0
103	Service ORiented Computing EnviRonment (SORCER) for deterministic global and stochastic aircraft design optimization: part 1. Advances in Aircraft and Spacecraft Science, 2017, 4, 297-316.	0.5	0
104	Nanonet Force Microscopy for Measuring Cell Forces. Biophysical Journal, 2016, 111, 197-207.	0.2	36
105	Control Power Optimization Using Artificial Intelligence For Forward Swept Wing And Hybrid Wing Body Aircraft. , 2016, , .		2
106	Aeroservoelastic Optimization of Wing Structure Using Curvilinear Spars and Ribs (SpaRibs). , 2016, , .		10
107	Transonic Aerodynamics Analysis for Multidisciplinary Design Optimization Applications. , 2016, , .		7
108	Accurate Computing of Higher Vibration Modes of Thin Flexible Structures. AIAA Journal, 2016, 54, 1704-1718.	1.5	6

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109	Reevaluating conceptual design fidelity: An efficient supersonic air vehicle design case. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 581-598.	0.7	8
110	Global/Local Optimization of Aircraft Wing Using Parallel Processing. AIAA Journal, 2016, 54, 3338-3348.	1.5	47
111	Transonic Aeroelastic Analysis for Multidisciplinary Design Optimization Applications. , 2016, , .		2
112	Damped Free Vibration Response of An Adhesively Bonded Stiffened Plate with Plate-Strip Stiffeners. , 2016, , .		2
113	Thermo-Mechanical Analysis and Design of Threaded Fasteners. , 2016, , .		0
114	A Physics-Based Methodology for Cantilever and Strut-Braced Wing Weight Estimation. , 2016, , .		3
115	Vibrational Analysis of Unitized Curvilinearly Stiffened Composite Panels Subjected to In-plane Loads. , 2016, , .		4
116	Non-Stationary Random Vibration Analysis Using Multi-Correlated Random Processes Excitations. , 2016, , .		0
117	Flight-Dynamics and Flutter Modeling and Analyses of a Flexible Flying-Wing Drone - Invited. , 2016, , .		21
118	Free Vibration Analysis of Integrally Stiffened Plates with Plate-Strip Stiffeners. AIAA Journal, 2016, 54, 1107-1119.	1.5	7
119	Non-stationary random vibration analysis of multi degree systems using auto-covariance orthogonal decomposition. Journal of Sound and Vibration, 2016, 372, 147-167.	2.1	17
120	Aeroelastic Control-oriented Modeling of an Air-breathing Hypersonic Vehicle. , 2016, , .		4
121	Buckling analysis of unitized curvilinearly stiffened composite panels. Composite Structures, 2016, 135, 365-382.	3.1	77
122	An artificial neural network residual kriging based surrogate model for curvilinearly stiffened panel optimization. Advances in Computational Design, 2016, 1, 235-251.	0.3	5
123	Comparative Assessment of Strut-Braced and Truss-Braced Wing Configurations Using Multidisciplinary Design Optimization. Journal of Aircraft, 2015, 52, 2009-2020.	1.7	18
124	Free Vibration Analysis of an Integrally Stiffened Plate with Plate-Strip Stiffeners using a Set of Static Timoshenko Beam Functions. , 2015, , .		0
125	Aeroelastic Analysis and Optimization of Flexible Wing Aircraft with a Novel Control Effector. , 2015, , .		2
126	A Novel Scheme to Accurately Compute Higher Vibration Modes using the Ritz Method and a Two-point BVP Solver. , 2015, , .		1

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127	Integrated Global Wing and Local Panel Optimization of Aircraft Wing. , 2015, , .		13
128	Three Dimensional Progressive Failure Analysis of Laminated Composite Structures. , 2015, , .		1
129	Finite Element Approach to the Static, Vibration and Buckling Analysis of Curvilinearly Stiffened Plates. , 2015, , .		2
130	Nonlinear Aeroelastic Analysis of SUGAR Truss-braced Wing (TBW) Wind-tunnel Model (WTM) Under In-plane Loads. , 2015, , .		5
131	Development of a Multi-Disciplinary Optimization Framework for Nonconventional Aircraft Configurations in PACELAB APD. , 2015, , .		2
132	Control Power Optimization using Artificial Intelligence for Hybrid Wing Body Aircraft. , 2015, , .		4
133	Free Vibration Analysis of Curvilinearly Stiffened Cylindrical Shells. , 2015, , .		3
134	Free Vibration of Curvilinearly Stiffened Shallow Shells. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.0	19
135	A Comparison of FEM and Semi-Analytical Method in the Buckling and Vibration of Non-Prismatic Columns under Tip Force and Self-Weight. , 2015, , .		2
136	Adhesively Bonded Joint Modeling Approaches using Linear Finite Element Analysis. , 2015, , .		0
137	Experimental Validation of the EBF3PanelOpt Vibroacoustic Analysis of Stiffened Panels. Journal of Aircraft, 2015, 52, 1481-1491.	1.7	2
138	Effect of Flutter on the Multidisciplinary Design Optimization of Truss-Braced-Wing Aircraft. Journal of Aircraft, 2015, 52, 1858-1872.	1.7	37
139	Vibration and Buckling Analysis of Curvilinearly Stiffened Plates Using Finite Element Method. AIAA Journal, 2015, 53, 1319-1335.	1.5	43
140	Assessment of Existing Models for Honeycomb Homogenized Properties. , 2015, , .		2
141	Multi-objective vibro-acoustic optimization of stiffened panels. Structural and Multidisciplinary Optimization, 2015, 51, 835-848.	1.7	10
142	Development of a multidisciplinary design optimization framework for an efficient supersonic air vehicle. Advances in Aircraft and Spacecraft Science, 2015, 2, 17-44.	0.5	12
143	Complex modes in damped sandwich beams using beam and elasticity theories. Advances in Aircraft and Spacecraft Science, 2015, 2, 57-76.	0.5	3
144	Tradeoffs of Wing Weight and Lift/Drag in Design of Medium-Range Transport Aircraft. Journal of Aircraft, 2014, 51, 904-912.	1.7	12

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145	Artificial-Neural-Network-Based Identification of a Modified Dynamic Preisach Model. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 45-53.	1.4	5
146	Parameterization of Curvilinear Spars and Ribs for Optimum Wing Structural Design. Journal of Aircraft, 2014, 51, 532-546.	1.7	11
147	Compression After Impact Experiments on Thin Face Sheet Honeycomb Core Sandwich Panels. Journal of Spacecraft and Rockets, 2014, 51, 253-266.	1.3	8
148	Buckling Analysis of Curvilinearly Stiffened Composite Panels with Cracks. , 2014, , .		0
149	Nonlinear Aeroelastic Analysis of a Truss Based Wing Aircraft. , 2014, , .		10
150	Degradation in Cellular Core Mechanical Properties due to Transverse Compression. , 2014, , .		0
151	Aircraft Conceptual Design: Tools Evaluation. , 2014, , .		5
152	Multidisciplinary Design Optimization of Subsonic Strut-Braced Wing Aircraft. , 2014, , .		7
153	Multidisciplinary Design Optimization of a Truss Braced Wing Concept. , 2014, , .		4
154	Compression After Impact Analysis on Thin Face Sheet Honeycomb Core Sandwich Panels. Journal of Spacecraft and Rockets, 2014, 51, 200-212.	1.3	1
155	Beam Delamination by Integrated Local Petrovâ€“Galerkin Sinc Method. AIAA Journal, 2014, 52, 419-435.	1.5	0
156	A framework combining meshfree analysis and adaptive kriging for optimization of stiffened panels. Structural and Multidisciplinary Optimization, 2014, 49, 577-594.	1.7	25
157	Optimal Energy Harvesting from a Membrane Attached to a Tensegrity Structure. AIAA Journal, 2014, 52, 307-319.	1.5	18
158	Parametric Geometry Model for Design Studies of Tailless Supersonic Aircraft. Journal of Aircraft, 2014, 51, 1455-1466.	1.7	12
159	Globalâ€“Local Finite Element Analysis of Adhesive Joints and Crack Propagation. Journal of Aircraft, 2014, 51, 310-319.	1.7	5
160	Globalâ€“Local Analysis of Composite Plate with Thin Notch. Journal of Aircraft, 2014, 51, 967-974.	1.7	8
161	Aeroelastic Divergence of a Randomly Cracked Thin-Walled Beam. Journal of Aircraft, 2014, 51, 390-401.	1.7	1
162	Global/Local Multidisciplinary Design Optimization of Subsonic Wing. , 2014, , .		9

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163	Experimental Validation of the EBF3PanelOpt Vibro-acoustic Analysis of Panels with Straight and Curvilinear sti[|#11#|]ffeners. , 2014, , .		0
164	Ritz Approach for Buckling Prediction of Cracked-Stiffened Structures. Journal of Aircraft, 2013, 50, 965-974.	1.7	14
165	A Study of the Adhesive Joints and Crack Propagation Using a Global-local Finite Element Method. , 2013, , .		1
166	Interlaminar stress calculation in composite and sandwich plates in NURBS Isogeometric finite element analysis. Composite Structures, 2013, 106, 537-548.	3.1	19
167	Damage Detection in a Prestressed Membrane Using a Wavelet-Based Neurofuzzy System. AIAA Journal, 2013, 51, 2558-2569.	1.5	5
168	Fracture Analysis of a Curvilinearly Stiffener Panel Subjected to Multiple Combined Loadings. Journal of Aircraft, 2013, 50, 1576-1592.	1.7	3
169	A Damage Tolerance Study of Curvilinearly Stiffened Panels with Different Crack Lengths Using a Global-local Finite Element Method. , 2013, , .		2
170	Multidisciplinary Design Optimization of Medium-Range Transonic Truss-Braced Wing Aircraft with Flutter Constraint. , 2013, , .		8
171	EBF3PanelOpt: An optimization framework for curvilinear blade-stiffened panels. Thin-Walled Structures, 2013, 63, 13-26.	2.7	91
172	Complex Modes in Damped Sandwich Beams Using Beam and Elasticity Theories. , 2013, , .		0
173	Free Vibration of Curvilinearly Stiffened Shallow Shells. , 2013, , .		0
174	EBF3PanelOpt: A Computational Design Environment for Panels Fabricated by Additive Manufacturing. , 2013, , .		3
175	Aerodynamic Analysis of Variable Geometry Raked Wingtips for Mid-Range Transonic Transport Aircraft Aerodynamic Analysis of Variable Geometry Raked Wingtips for Mid-Range Transonic Transport Aircraft. , 2013, , .		2
176	Design, Optimization, and Evaluation of Alâ€“2139 Compression Panel with Integral T-Stiffeners. Journal of Aircraft, 2013, 50, 1275-1286.	1.7	4
177	Curvilinearly T-Stiffened Panel-Optimization Framework Under Multiple Load Cases Using Parallel Processing. Journal of Aircraft, 2013, 50, 1540-1554.	1.7	11
178	Hybrid Optimization Framework with Proper-Orthogonal-Decomposition-Based Order Reduction and Design-Space Evolution Scheme. Journal of Aircraft, 2013, 50, 1776-1786.	1.7	8
179	Global-Local Analysis of Composite Plate With Thin Notch. , 2013, , .		1
180	Design, Optimization, and Evaluation of Al-2139 Compression Panel with Integral T-Stiffeners. , 2013, , .		3

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181	Stochastic Critical Stress Intensity Factor Response of Single Edge Notched Laminated Composite Plate. , 2013, , .		3
182	Optimal Energy Harvesting From A Membrane Attached To A Tensegrity Structure. , 2013, , .		1
183	An Artificial Neural Network Residual Kriging Based Surrogate Model for Shape and Size Optimization of a Stiffened Panel. , 2013, , .		7
184	Comparison Between Different Cellular Cores and Finite Element Modeling Techniques. , 2013, , .		2
185	Multidisciplinary Optimization of Supersonic Wing Structures Using Curvilinear Spars and Ribs (SpaRibs). , 2013, , .		19
186	Variance Constrained Flying Qualities Metrics for Conceptual Design Feasibility Studies. , 2013, , .		1
187	A Hybrid Optimization Strategy Using Design-Space Evolution and POD-based Order Reduction. , 2012, , .		10
188	Buckling and Crack Propagation of Cracked Box Beams. , 2012, , .		1
189	Curvilinearly T-Stiffened Panel Optimization Framework under Multiple Load Cases Using Parallel Processing. , 2012, , .		2
190	Compression After Impact on Honeycomb Core Sandwich Panels with Thin Facesheets, Part 1: Experiments. , 2012, , .		9
191	Progressive Failure Analysis of Laminated Composite Structures Based on Puck's Failure Criteria. , 2012, , .		2
192	A Multidisciplinary Analysis Optimization (MDAO) Environment for Wings Having SpaRibs. , 2012, , .		0
193	Multi-objective Vibro-acoustic Optimization of Point Excited Curved Panels with Straight/Curvilinear Stiffeners. , 2012, , .		0
194	Flutter Modeling and Suppression for a Strut-Braced Wing. , 2012, , .		2
195	A POD-based Reduced Order Design Scheme for Shape Optimization of Air Vehicles. , 2012, , .		24
196	Vibro-Acoustic Optimization of Turbulent Boundary Layer Excited Panel with Curvilinear Stiffeners. Journal of Aircraft, 2012, 49, 52-65.	1.7	25
197	Vibration Analysis of Curvilinearly-Stiffened Functionally Graded Plate Using Element Free Galerkin Method. Mechanics of Advanced Materials and Structures, 2012, 19, 100-108.	1.5	21
198	Evaluation of Adhesive Joints of Two Different Materials. , 2012, , .		1

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199	Parametric Geometry Model for Multidisciplinary Design Optimization of Tailless Supersonic Aircraft. , 2012, , .		6
200	Trade-offs of Wing Weight and Lift/Drag on Design of Medium-Range Transport Aircraft. , 2012, , .		1
201	Parameterization of Curvilinear Spars and Ribs (SpaRibs) for Optimum Wing Structural Design. , 2012, , .		0
202	Scaling Laws for Flight Control Development and Testing in the Presence of Aeroservoelastic Interactions. , 2012, , .		3
203	Solution of Nonlinear Vibration Problem of a Prestressed Membrane by Adomian Decomposition. AIAA Journal, 2012, 50, 1796-1800.	1.5	9
204	Multifidelity, Multistrategy, and Multidisciplinary Design Optimization Environment. Journal of Aircraft, 2012, 49, 1255-1270.	1.7	13
205	Structural and Aeroelastic Characteristics of Truss-Braced Wings: A Parametric Study. Journal of Aircraft, 2012, 49, 302-310.	1.7	41
206	A Multidisciplinary Design Optimization Framework for Design Studies of an Efficient Supersonic Air Vehicle. , 2012, , .		18
207	Towards Flying Qualities Constraints in the Multidisciplinary Design Optimization of a Supersonic Tailless Aircraft. , 2012, , .		7
208	Geometrically nonlinear NURBS isogeometric finite element analysis of laminated composite plates. Composite Structures, 2012, 94, 3434-3447.	3.1	72
209	Chebyshev-Ritz Approach to Buckling and Vibration of Curvilinearly Stiffened Plate. AIAA Journal, 2012, 50, 1007-1018.	1.5	30
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