

Dewey H Hodges

List of Publications by Year in descending order

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35
papers

1,703
citations

516561

16
h-index

454834

30
g-index

36
all docs

36
docs citations

36
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	A mixed variational formulation based on exact intrinsic equations for dynamics of moving beams. <i>International Journal of Solids and Structures</i> , 1990, 26, 1253-1273.	1.3	427
2	Geometrically Exact, Intrinsic Theory for Dynamics of Curved and Twisted Anisotropic Beams. <i>AIAA Journal</i> , 2003, 41, 1131-1137.	1.5	328
3	Free-Vibration Analysis of Composite Beams. <i>Journal of the American Helicopter Society</i> , 1991, 36, 36-47.	0.5	141
4	Elasticity Solutions Versus Asymptotic Sectional Analysis of Homogeneous, Isotropic, Prismatic Beams. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2004, 71, 15-23.	1.1	116
5	A Geometrically Nonlinear Theory of Elastic Plates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1993, 60, 109-116.	1.1	99
6	Multi-flexible-body Dynamic Analysis of Horizontal Axis Wind Turbines. <i>Wind Energy</i> , 2002, 5, 281-300.	1.9	77
7	Inverse Dynamics of Servo-Constraints Based on the Generalized Inverse. <i>Nonlinear Dynamics</i> , 2005, 39, 179-196.	2.7	68
8	A Geometrically Nonlinear Shear Deformation Theory for Composite Shells. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2004, 71, 1-9.	1.1	53
9	Variational-Asymptotical Analysis of Initially Curved and Twisted Composite Beams. <i>Applied Mechanics Reviews</i> , 1993, 46, S211-S220.	4.5	48
10	Integrated form finding method for mesh reflector antennas considering the flexible truss and hinges. <i>Aerospace Science and Technology</i> , 2019, 84, 926-937.	2.5	48
11	Asymptotic Approach for Thermoelastic Analysis of Laminated Composite Plates. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 531-540.	1.6	40
12	Stiffness Constants for Composite Beams Including Large Initial Twist and Curvature Effects. <i>Applied Mechanics Reviews</i> , 1995, 48, S61-S67.	4.5	35
13	Form finding and design optimization of cable network structures with flexible frames. <i>Computers and Structures</i> , 2019, 220, 81-91.	2.4	32
14	Stability of Hingeless Rotors in Hover Using Three-Dimensional Unsteady Aerodynamics. <i>Journal of the American Helicopter Society</i> , 1991, 36, 21-31.	0.5	23
15	Analysis of Nonlinear Multibody Systems with Elastic Couplings. <i>Multibody System Dynamics</i> , 1999, 3, 163-188.	1.7	18
16	Nonlinear Deformation of Composite Beams: Unification of Cross-Sectional and Elastic Analyses. <i>Applied Mechanics Reviews</i> , 1991, 44, S9-S15.	4.5	17
17	Nonminimal Kane's Equations of Motion for Multibody Dynamical Systems Subject to Nonlinear Nonholonomic Constraints. <i>Multibody System Dynamics</i> , 2005, 14, 155-187.	1.7	14
18	In Vitro-Derived Gametes from Stem Cells. <i>Seminars in Reproductive Medicine</i> , 2013, 31, 033-038.	0.5	14

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19	Asymptotic Derivation of Shear Beam Theory from Timoshenko Theory. Journal of Engineering Mechanics - ASCE, 2007, 133, 957-961.	1.6	13
20	Nonlocal fully intrinsic equations for free vibration of Euler-Bernoulli beams with constitutive boundary conditions. Acta Mechanica, 2018, 229, 3279-3292.	1.1	13
21	Aeroelastic Stability Analysis of Tailored Pretwisted Wings. AIAA Journal, 2019, 57, 4458-4466.	1.5	11
22	Modeling of initially curved and twisted smart beams using intrinsic equations. International Journal of Solids and Structures, 2018, 148-149, 3-13.	1.3	10
23	Functionally graded thick sandwich beams with porous core: Buckling analysis via differential transform method. Mechanics Based Design of Structures and Machines, 2023, 51, 3650-3677.	3.4	10
24	Dynamic Variational-Asymptotic Procedure for Laminated Composite Shells—Part I: Low-Frequency Vibration Analysis. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	8
25	Asymptotic Approach to Oblique Cross-Sectional Analysis of Beams. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	1.1	8
26	Mechanics of structure genome-based global buckling analysis of stiffened composite panels. Acta Mechanica, 2019, 230, 4109-4124.	1.1	8
27	Dynamic Variational-Asymptotic Procedure for Laminated Composite Shells—Part II: High-Frequency Vibration Analysis. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	7
28	Solving boundary-value problems using hp-version finite elements in time. International Journal for Numerical Methods in Engineering, 1998, 43, 425-440.	1.5	6
29	A Weak Hamiltonian Finite Element Method for Optimal Guidance of an Advanced Launch Vehicle. , 1989, , .		4
30	Discussion: "On the Dynamic Response of a Single-Degree-of-Freedom Structure Attached to the Interior of a Rotating Rigid Ring" (Herrried, A. G., and Gustafson, G. B., 1988, ASME J. Appl. Mech., 55, pp.)		0
31	An Argument Against Augmenting the Lagrangean for Nonholonomic Systems. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	3
32	Application of Variational Asymptotic Method for Structural Analysis of Fan Rotor Blades in Boundary Layer Ingesting Flow Field. , 2020, , .		1
33	Some Fundamentals Regarding Kinematics and Generalized Forces for Multibody Dynamics. Journal of the American Helicopter Society, 1990, 35, 3-11.	0.5	0
34	A Hybrid Symbolic/Finite-Element Algorithm for Solving Nonlinear Optimal Control Problems. , 1991, , .		0
35	Load Reduction During Resonance Crossing of a Variable-Speed Rotor. Journal of Aircraft, 0, , 1-23.	1.7	0