Paulo Flores

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

171 papers	5,394 citations	39 h-index	72 g-index
202 ext. papers	6,349 ext. citations	2.1 avg, IF	6.31 L-index

#	Paper	IF	Citations
171	Compliant contact force models in multibody dynamics: Evolution of the Hertz contact theory. *Mechanism and Machine Theory*, **2012**, 53, 99-121	4	362
170	On the continuous contact force models for soft materials in multibody dynamics. *Multibody System Dynamics*, **2011**, 25, 357-375	2.8	235
169	Revolute joints with clearance in multibody systems. *Computers and Structures*, **2004**, 82, 1359-1369	4.5	214
168	A study on dynamics of mechanical systems including joints with clearance and lubrication. *Mechanism and Machine Theory*, **2006**, 41, 247-261	4	206
167	Modeling and simulation of wear in revolute clearance joints in multibody systems. *Mechanism and Machine Theory*, **2009**, 44, 1211-1222	4	202
166	A parametric study on the dynamic response of planar multibody systems with multiple clearance joints. *Nonlinear Dynamics*, **2010**, 61, 633-653	5	189
165	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. *Nonlinear Dynamics*, **2016**, 86, 1407-1443	5	188
164	A comprehensive survey of the analytical, numerical and experimental methodologies for dynamics of multibody mechanical systems with clearance or imperfect joints. *Mechanism and Machine Theory* , **2018**, 122, 1-57	4	187
163	Numerical and experimental investigation on multibody systems with revolute clearance joints. *Nonlinear Dynamics*, **2011**, 65, 383-398	5	178
162	On the contact detection for contact-impact analysis in multibody systems. *Multibody System Dynamics*, **2010**, 24, 103-122	2.8	174
161	Modeling and analysis of planar rigid multibody systems with translational clearance joints based on the non-smooth dynamics approach. *Multibody System Dynamics*, **2010**, 23, 165-190	2.8	160
160	Dynamic Analysis for Planar Multibody Mechanical Systems with Lubricated Joints. *Multibody System Dynamics*, **2004**, 12, 47-74	2.8	160
159	Dynamics of spatial flexible multibody systems with clearance and lubricated spherical joints. *Computers and Structures*, **2009**, 87, 913-929	4.5	159
158	A new model for dry and lubricated cylindrical joints with clearance in spatial flexible multibody systems. *Nonlinear Dynamics*, **2011**, 64, 25-47	5	156
157	A comparative study of the viscoelastic constitutive models for frictionless contact interfaces in solids. *Mechanism and Machine Theory*, **2015**, 85, 172-188	4	148
156	Study of the effect of contact force model on the dynamic response of mechanical systems with dry clearance joints: computational and experimental approaches. *Nonlinear Dynamics*, **2013**, 73, 325-338	5	136
155	Spatial rigid-multibody systems with lubricated spherical clearance joints: modeling and simulation. *Nonlinear Dynamics*, **2010**, 60, 99-114	5	115

154	ElastoHydroDynamic lubricated cylindrical joints for rigid-flexible multibody dynamics. *Computers and Structures*, **2013**, 114-115, 106-120	4.5	101
153	Lubricated revolute joints in rigid multibody systems. *Nonlinear Dynamics*, **2009**, 56, 277-295	5	94
152	An enhanced formulation to model spatial revolute joints with radial and axial clearances. *Mechanism and Machine Theory*, **2017**, 116, 123-144	4	93
151	Dynamic Response of Multibody Systems with Multiple Clearance Joints. *Journal of Computational and Nonlinear Dynamics*, **2012**, 7,	1.4	89
150	A Parametric Study on the Baumgarte Stabilization Method for Forward Dynamics of Constrained Multibody Systems. *Journal of Computational and Nonlinear Dynamics*, **2011**, 6,	1.4	86
149	Dynamics of Multibody Systems With Spherical Clearance Joints. *Journal of Computational and Nonlinear Dynamics*, **2006**, 1, 240-247	1.4	86
148	The effect of the lubricated revolute joint parameters and hydrodynamic force models on the dynamic response of planar multibody systems. *Nonlinear Dynamics*, **2012**, 69, 635-654	5	81
147	Nonlinear dynamics and chaotic control of a flexible multibody system with uncertain joint clearance. *Nonlinear Dynamics*, **2016**, 86, 1571-1597	5	75
146	Coupling dynamics of a geared multibody system supported by ElastoHydroDynamic lubricated cylindrical joints. *Multibody System Dynamics*, **2015**, 33, 259-284	2.8	71
145	Translational Joints With Clearance in Rigid Multibody Systems. *Journal of Computational and Nonlinear Dynamics*, **2008**, 3,	1.4	69
144	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. *Multibody System Dynamics*, **2019**, 45, 223-244	2.8	64
143	Exact and Approximate Algorithms for the Optimization of Area and Delay in Multiple Constant Multiplications. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2008**, 27, 1013-1026	2.5	63
142	On the constraints violation in forward dynamics of multibody systems. *Multibody System Dynamics*, **2017**, 39, 385-419	2.8	62
141	Development of a planar multibody model of the human knee joint. *Nonlinear Dynamics*, **2010**, 60, 459-478	5	62
140	A mathematical framework for rigid contact detection between quadric and superquadric surfaces. *Multibody System Dynamics*, **2010**, 24, 255-280	2.8	61
139	Application of the nonsmooth dynamics approach to model and analysis of the contact-impact events in cam-follower systems. *Nonlinear Dynamics*, **2012**, 69, 2117-2133	5	55
138	Influence of the contact-impact force model on the dynamic response of multi-body systems. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2006**, 220, 21-34	0.9	53
137	Study of the friction-induced vibration and contact mechanics of artificial hip joints. *Tribology International*, **2014**, 70, 1-10	4.9	51

136	Search algorithms for the multiple constant multiplications problem: Exact and approximate. *Microprocessors and Microsystems*, **2010**, 34, 151-162	2.4	50
135	Nonlinear vibration and dynamics of ceramic on ceramic artificial hip joints: a spatial multibody modelling. *Nonlinear Dynamics*, **2014**, 76, 1365-1377	5	48
134	Contact Force Models for Multibody Dynamics. *Solid Mechanics and Its Applications*, **2016**,	0.4	46
133	Dynamic modeling and analysis of wear in spatial hard-on-hard couple hip replacements using multibody systems methodologies. *Nonlinear Dynamics*, **2015**, 82, 1039-1058	5	42
132	A Kriging Model for Dynamics of Mechanical Systems With Revolute Joint Clearances. *Journal of Computational and Nonlinear Dynamics*, **2014**, 9,	1.4	38
131	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints. *Journal of Computational and Nonlinear Dynamics*, **2017**, 12,	1.4	34
130	Implementation of a non-Hertzian contact model for railway dynamic application. *Multibody System Dynamics*, **2020**, 48, 41-78	2.8	32
129	A three-dimensional approach for contact detection between realistic wheel and rail surfaces for improved railway dynamic analysis. *Mechanism and Machine Theory*, **2020**, 149, 103825	4	29
128	Dynamic behaviour of planar rigid multi-body systems including revolute joints with clearance. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2007**, 221, 161-174	0.9	29
127	A review of squeaking in ceramic total hip prostheses. *Tribology International*, **2016**, 93, 239-256	4.9	24
126	A finite element model of a 3D dry revolute joint incorporated in a multibody dynamic analysis. *Multibody System Dynamics*, **2019**, 45, 293-313	2.8	24
125	A Computational Approach for Cam Size Optimization of Disc Cam-Follower Mechanisms With Translating Roller Followers. *Journal of Mechanisms and Robotics*, **2013**, 5,	2.2	22
124	Strain shielding in distal femur after patellofemoral arthroplasty under different activity conditions. *Journal of Biomechanics*, **2010**, 43, 477-84	2.9	22
123	On the Frictional Contacts in Multibody System Dynamics. *Computational Methods in Applied Sciences (Springer)*, **2016**, 67-91	0.4	20
122	On the generation of enhanced lookup tables for wheel-rail contact models. *Wear*, **2019**, 434-435, 202993	3.5	19
121	Spatial revolute joints with clearances for dynamic analysis of multi-body systems. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2006**, 220, 257-271	0.9	19
120	Micro-CT based finite element modelling and experimental characterization of the compressive mechanical properties of 3-D zirconia scaffolds for bone tissue engineering. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 102, 103516	4.1	18
119	Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva. *Wear*, **2016**, 368-369, 84-91	3.5	17

118	A Computational Analysis of Squeaking Hip Prostheses. *Journal of Computational and Nonlinear Dynamics*, **2015**, 10,	1.4	15
117	A particle swarm-based algorithm for optimization of multi-layered and graded dental ceramics. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 77, 461-469	4.1	15
116	Portuguese higher education students' adaptation to online teaching and learning in times of the COVID-19 pandemic: personal and contextual factors. *Higher Education*, **2021**, 1-20	3	15
115	A kinematic characterization of human walking by using CaTraSys. *Mechanism and Machine Theory*, **2015**, 86, 125-139	4	13
114	Modeling of the condyle elements within a biomechanical knee model. *Multibody System Dynamics*, **2012**, 28, 181-197	2.8	13
113	Influence of the contact model on the dynamic response of the human knee joint. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2011**, 225, 344-358	0.9	13
112	Influence of the Hip Joint Modeling Approaches on the Kinematics of Human Gait. *Journal of Tribology*, **2016**, 138,	1.8	12
111	Examination and comparison of different methods to model closed loop kinematic chains using Lagrangian formulation with cut joint, clearance joint constraint and elastic joint approaches. *Mechanism and Machine Theory*, **2021**, 160, 104294	4	12
110	An investigation of a novel LuGre-based friction force model. *Mechanism and Machine Theory*, **2021**, 166, 104493	4	12
109	A Methodology for Quantifying the Kinematic Position Errors due to Manufacturing and Assembly Tolerances. *Strojniski Vestnik/Journal of Mechanical Engineering*, **2011**, 57, 457-467	1.3	11
108	Modelling lubricated revolute joints in multibody mechanical systems. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2004**, 218, 183-190	0.9	11
107	Nickel-cobalt-based materials for diamond cutting tools. *International Journal of Advanced Manufacturing Technology*, **2018**, 95, 1059-1067	3.2	11
106	Concepts and Formulations for Spatial Multibody Dynamics. *SpringerBriefs in Applied Sciences and Technology*, **2015**,	0.4	10
105	Coupling multi-body dynamics and fluid dynamics to model lubricated spherical joints. *Archive of Applied Mechanics*, **2020**, 90, 2091-2111	2.2	8
104	Wear behaviour of tetragonal zirconia polycrystal with a porous surface. *International Journal of Refractory Metals and Hard Materials*, **2018**, 75, 85-93	4.1	8
103	Contact-Impact Force Models for Mechanical Systems **2008**, 47-66		8
102	Synthesis of a Mechanism for Human Gait Rehabilitation: An Introductory Approach. *Mechanisms and Machine Science*, **2015**, 121-128	0.3	7
101	High heterogeneity in in vivo instrumented-assisted patellofemoral joint stress testing: a systematic review. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2019**, 27, 745-757	5.5	7

100	Biomechanical behaviour of cancellous bone on patellofemoral arthroplasty with Journey prosthesis: a finite element study. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18, 1090-1098	2.1	7
99	A new device for patellofemoral instrumented stress-testing provides good reliability and validity. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2020**, 28, 389-397	5.5	7
98	A Lookup-Table-Based Approach for Spatial Analysis of Contact Problems. *Journal of Computational and Nonlinear Dynamics*, **2014**, 9,	1.4	6
97	Development of mechanical engineering curricula at the University of Minho. *European Journal of Engineering Education*, **2007**, 32, 539-549	1.5	6
96	Unilateral anterior knee pain is associated with increased patellar lateral position after stressed lateral translation. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2020**, 28, 454-462	5.5	6
95	Trends in the Control of Hexapod Robots: A Survey. *Robotics*, **2021**, 10, 100	2.8	6
94	The journal of Mechanism and Machine Theory: Celebrating 55 years since its foundation. *Mechanism and Machine Theory*, **2019**, 142, 103599	4	5
93	Investigation on the Baumgarte Stabilization Method for Dynamic Analysis of Constrained Multibody Systems **2009**, 305-312		5
92	Multi-objective Optimization of Mechanisms with Clearances in Revolute Joints. *Mechanisms and Machine Science*, **2015**, 423-433	0.3	4
91	Development of a biomechanical spine model for dynamic analysis **2012**,		4
90	Comparison of Different Methods to Control Constraints Violation in Forward Multibody Dynamics **2013**,		4
89	Compliant contact force approach for forward dynamic modeling and analysis of biomechanical systems. *Procedia IUTAM*, **2011**, 2, 58-67		4
88	Patients with different patellofemoral disorders display a distinct ligament stiffness pattern under instrumented stress testing. *Journal of ISAKOS*, **2020**, 5, 74-79	1.1	4
87	Recent Developments on Cylindrical Contact Force Models with Realistic Properties. *Mechanisms and Machine Science*, **2017**, 211-219	0.3	4
86	Spatial Joints with Clearance: Dry Contact Models **2008**, 133-169		4
85	Dynamic Modeling and Analysis of Pool Balls Interaction. *Computational Methods in Applied Sciences (Springer)*, **2020**, 79-86	0.4	4
84	A compendium of contact force models inspired by Hunt and Crossley's cornerstone work. *Mechanism and Machine Theory*, **2022**, 167, 104501	4	4
83	Effects of workers' Body Mass Index and task conditions on exertion psychophysics during Vertical Handling Tasks. *Work*, **2019**, 63, 231-241	1.6	3

82	Design, Modelling and Control of an Active Weight-Bearing Knee Exoskeleton with a Series Elastic Actuator **2019**,		3
81	Dissipative Contact Force Models. *Solid Mechanics and Its Applications*, **2016**, 27-52	0.4	3
80	3D Formulation for Revolute Clearance Joints. *Mechanisms and Machine Science*, **2017**, 183-191	0.3	3
79	A biomechanical multibody foot model for forward dynamic analysis **2012**,		3
78	A Recursive Algorithm for the Forward Kinematic Analysis of Robotic Systems Using Euler Angles. *Robotics*, **2022**, 11, 15	2.8	3
77	Crashworthiness analysis of an aircraft fuselage section with an auxiliary fuel tank using a hybrid multibody/plastic hinge approach. *International Journal of Crashworthiness*, **2020**, 25, 95-105	1	3
76	Obesity effects on muscular activity during lifting and lowering tasks. *International Journal of Occupational Safety and Ergonomics*, **2021**, 27, 217-225	2.1	3
75	Current Perspectives on the Biomechanical Modelling of the Human Lower Limb: A Systematic Review. *Archives of Computational Methods in Engineering*, **2021**, 28, 601-636	7.8	3
74	The first fifty years of the Mechanism and Machine Theory: Standing back and looking forward. *Mechanism and Machine Theory*, **2018**, 125, 8-20	4	3
73	Utilization of Non-Conformal Wheel Surfaces for Railway Dynamics. *Mechanisms and Machine Science*, **2019**, 3291-3300	0.3	2
72	Thermo-Mechanical Behaviour of Human Nasal Cartilage. *Polymers*, **2020**, 12,	4.5	2
71	Kinematics differences between obese and non-obese workers during vertical handling tasks. *International Journal of Industrial Ergonomics*, **2020**, 77, 102955	2.9	2
70	Clinical diagnosis of patellofemoral disorders **2013**,		2
69	A new approach to implement a customized anatomic insole in orthopaedic footwear of lower limb orthosis. *IOP Conference Series: Materials Science and Engineering*, **2017**, 254, 232006	0.4	2
68	Patellofemoral Evaluation: Do We Need an Objective Kinematic Approach? **2014**, 37-44		2
67	Design of a New Knee Orthosis Locking System **2013**,		2
66	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers **2009**,		2
65	A Systematic and General Approach to Kinematic Position Errors Due to Manufacturing and Assemble Tolerances **2007**, 43		2

64	Modeling, Analysis and Simulation of 3D Elastohydrodynamic Revolute Joints in Multibody Systems. *Mechanisms and Machine Science*, **2015**, 199-209	0.3	2
63	Euler Angles, Bryant Angles and Euler Parameters. *SpringerBriefs in Applied Sciences and Technology* , **2015**, 15-22	0.4	2
62	Passive Walking Biped Model with Dissipative Contact and Friction Forces. *Mechanisms and Machine Science*, **2019**, 35-42	0.3	2
61	Approach for Conformal Contact Detection for Wheel-Rail Interaction. *Mechanisms and Machine Science*, **2019**, 71-78	0.3	2
60	Modeling and Analysis of Rigid Multibody Systems with Translational Clearance Joints Based on the Nonsmooth Dynamics Approach. *Computational Methods in Applied Sciences (Springer)*, **2011**, 107-130	0.4	2
59	Cam Size Optimization of Disc Cam-Follower Mechanisms with Translating Roller Followers **2010**, 225-233		2
58	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints **2016**,		2
57	Multibody Systems Formulation. *Solid Mechanics and Its Applications*, **2016**, 53-91	0.4	2
56	Modelling and simulation of alternative designs for the femur–implant interface of Journey patellofemoral prosthesis. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2019**, 233, 1619-1628	1.3	2
55	Wheel-rail contact models in the presence of switches and crossings. *Vehicle System Dynamics*,1-33	2.8	2
54	Study of the Contact Force Model on the Dynamic Response of a Four-Bar Mechanism with Clearance Joints. *Mechanisms and Machine Science*, **2013**, 541-548	0.3	1
53	On the Study of the Kinematic Position Errors Due to Manufacturing and Assembly Tolerances. *Mechanisms and Machine Science*, **2015**, 81-90	0.3	1
52	A Parametric Study on the Baumgarte Stabilization Method for Forward Dynamics of Constrained Multibody Systems **2009**,		1
51	Contact Detection Approach Between Wheel and Rail Surfaces. *Mechanisms and Machine Science*, **2020**, 405-412	0.3	1
50	Modelling Spherical Joints in Multibody Systems. *Mechanisms and Machine Science*, **2022**, 85-93	0.3	1
49	Wear Prediction of Ceramic-on-Ceramic Artificial Hip Joints. *Mechanisms and Machine Science*, **2015**, 463-470	0.3	1
48	Human Gait Analyses Using Multibody Systems Formulation: Normal and Pathological Scenarios. *Mechanisms and Machine Science*, **2015**, 505-513	0.3	1
47	Design of a New Medical Device for Aiding Clinical Diagnosis of Patellofemoral Disorders. *Mechanisms and Machine Science*, **2015**, 633-641	0.3	1

46	Kinematic Constraint Equations. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 31-35	0.4	1
45	A Study on Constraints Violation in Dynamic Analysis of Spatial Mechanisms. *Mechanisms and Machine Science*, **2018**, 593-601	0.3	1
44	Spatial Multibody Systems with Lubricated Spherical Joints: Modeling and Simulation **2010**, 397-404		1
43	Planar Joints with Clearance: Dry Contact Models **2008**, 67-100		0
42	Tribological Behavior of 316L Stainless Steel Reinforced with CuCoBe + Diamond Composites by Laser Sintering and Hot Pressing: A Comparative Statistical Study. *Lecture Notes in Computer Science*, **2020**, 231-246	0.9	0
41	Thermographic differences due to dynamic work tasks on individuals with different obesity levels: a preliminary study. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization*, **2020**, 8, 323-333	0.9	0
40	Pure Elastic Contact Force Models. *Solid Mechanics and Its Applications*, **2016**, 15-25	0.4	0
39	Demonstrative Application Examples. *Solid Mechanics and Its Applications*, **2016**, 135-168	0.4	0
38	On the Modeling of Biomechanical Systems for Human Movement Analysis: A Narrative Review. *Archives of Computational Methods in Engineering*,1	7.8	0
37	A bibliometric overview of Mechanism and Machine Theory journal: Publication trends from 1990 to 2020. *Mechanism and Machine Theory*, **2022**, 175, 104965	4	0
36	Computational Modelling of Human Lower Limb for Reproduction of Walking Dynamics with Muscles: Healthy and Pathological Cases. *Mechanisms and Machine Science*, **2019**, 3227-3236	0.3	
35	Numerical Methods in Multibody System Dynamics. *Solid Mechanics and Its Applications*, **2016**, 93-134	0.4	
34	Comparison of Different Contact Force Models for Low and Moderate Impact Velocities: Numerical and Experimental Analysis. *Mechanisms and Machine Science*, **2013**, 549-556	0.3	
33	Development and Early Results of a New Concept of an Orthopedic Footwear Stirrup. *Mechanisms and Machine Science*, **2015**, 699-707	0.3	
32	Development of Mechanical Engineering Curricula at the University of Minho **2006**, 353		
31	Modeling Expected Wear in Revolute Joints With Clearance in Multibody Mechanical Systems **2007**, 357		
30	On the Computational Biomechanics of the Intervertebral Disc. *Lecture Notes in Computational Vision and Biomechanics*, **2020**, 223-240	0.3	
29	Multibody Systems Formulation **2008**, 23-45		

28	Lubricated Joints for Mechanical Systems **2008**, 101-131	
27	Radix-2r recoding with common subexpression elimination for multiple constant multiplication. *IET Circuits, Devices and Systems*, **2020**, 14, 990-994	1.1
26	Railway Dynamics with Curved Contact Patch. *Mechanisms and Machine Science*, **2022**, 105-113	0.3
25	Modeling and Simulation of Frictional Contacts in Multi-rigid-Body Systems. *Mechanisms and Machine Science*, **2022**, 77-84	0.3
24	On the Utilization of Simplified Methodologies for the Wheel-Rail Contact. *Mechanisms and Machine Science*, **2022**, 114-121	0.3
23	Workers□Body Constitution as a Risk Factor During Manual Materials Handling. *Advances in Intelligent Systems and Computing*, **2019**, 898-903	0.4
22	Dynamic Modeling and Analysis of an Industrial Cutting File Machine. *Mechanisms and Machine Science*, **2015**, 923-931	0.3
21	Techniques for Geometrical Detection of Contact Within Multibody Systems. *Mechanisms and Machine Science*, **2015**, 471-478	0.3
20	A Form-Closed Cam-Follower Mechanism for a Breath Simulator Machine. *Mechanisms and Machine Science*, **2015**, 129-137	0.3
19	A New Approach to Eliminate the Constraints Violation at the Position and Velocity Levels in Constrained Mechanical Multibody Systems. *Mechanisms and Machine Science*, **2015**, 385-393	0.3
18	Basic Constraints Between Two Vectors. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 37-41	0.4
17	Vector of Coordinates, Velocities and Accelerations. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 27-29	0.4
16	Force Elements and Reaction Forces. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 55-59	0.4
15	Angular Velocity and Acceleration. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 23-26	0.4
14	Fundamental Concepts in Multibody Dynamics. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 5-9	0.4
13	Methods to Solve the Equations of Motion. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 61-66	0.4
12	Demonstrative Example of Application. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 79-83	0.4
11	Equations of Motion for Constrained Systems. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 49-53	0.4

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10	Integration Methods in Dynamic Analysis. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 67-74	0.4
9	Global and Local Coordinates. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 11-14	0.4
8	Kinematic Joints Constraints. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 43-48	0.4
7	Correction of the Initial Conditions. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 75-78	0.4
6	Definition of Multibody System. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 1-3	0.4
5	Analysis of Infrared Imaging During Vertical Handling Tasks in Workers with Different Levels of Obesity. *Advances in Intelligent Systems and Computing*, **2018**, 447-455	0.4
4	Kinematic Analysis of the Roller Follower Motion in Translating Cam-Follower Mechanisms **2010**, 253-259	
3	An Optimization Approach to Generate Accurate and Efficient Lookup Tables for Engineering Applications **2019**, 1446-1457	
2	Professor Bernard (Bernie) Roth: A short biography. *Mechanism and Machine Theory*, **2018**, 125, 3-7	4
1	Dynamic Modeling of a Human-Inspired Robot Based on a Newton-Euler Approach. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, **2022**, 79-90	0.6