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a seamless combination of the two volumes 1984 1990 this work presents an exciting diagrammatic display of the hidden geometry of freedom and constraint

does a machine run well by virtue of its accuracies or its freedoms this work presents an exciting diagrammatic display of the hidden geometry of freedom and constraint it bolsters the imaginative design of robots but applies across all fields of machinery the figures and their captions comprise alone a self standing story and this connects effectively with the rigorously argued text the seamless combination of the two volumes 1984 1990 renders the internal cross referencing forward and backward within the volumes easier to look up the appearance of this paperback is a clear testament to the work s ongoing readership the term screw theory occurs throughout this relates after ball to the book s philosophy and one might equally mention kinetostatics after federhofer an all pervading counter intuitive fact accordingly presents itself while analogously angular velocity relates to force linear velocity relates to couple a direct consequence of freedom in machinery is a more recent book by the same author specifically titled general spatial involute gearing and published in germany 2003 it exemplifies the many ways in which freedom in machinery clarifies the enigmatic field of spatial mechanism that field continuously expands with the current continuous thrust of ordinary engineering practice

the scientists of the seventeenth and eighteenth centuries led by jas bernoulli and euler created a coherent theory of the mechanics of strings and rods undergoing planar deformations they introduced the basic concepts of strain both extensional and flexural of contact force with its components of tension and shear force and of contact couple they extended newton s law of motion for a mass point to a law valid for any deformable body euler formulated its independent and much subtler complement the angular momentum principle euler also gave effective variational characterizations of the governing equations these scientists breathed life into the theory by proposing formulating and solving the problems of the suspension bridge the catenary the velaria the elastica and the small transverse vibrations of an elastic string the level of difficulty of some of these problems is such that even today their descriptions are seldom vouchsafed to undergraduates the realization that such profound and beautiful results could be deduced by mathematical reasoning from fundamental physical principles furnished a significant contribution to the intellectual climate of the age of reason at first those who solved these problems did not distinguish between linear and nonlinear equations and so were not intimidated by the latter by the middle of the nineteenth century cauchy had constructed the basic framework of three dimensional continuum mechanics on the foundations built by his eighteenth century predecessors

companion cd contains 8 animations covering fundamental engineering mechanics concept

this textbook is designed for introductory statics courses found in mechanical engineering civil engineering aeronautical engineering and engineering mechanics departments it better enables students to learn challenging material through effective efficient examples and explanations

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