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Brian D. Harper Mechanical Engineering The Ohio State University

A supplement to accompany Engineering Mechanics: Dynamics, 6th Edition by J.L. Meriam and L.G. Kraige



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of MATLAB demonstrated This book employs MATLAB as the software and programming environment and provides the user with powerful tools in the solution of numerical problems Although this book is not meant to be an exhaustive treatise on MATLAB MATLAB solutions to problems are systematically developed and included throughout the book MATLAB files and scripts are generated and examples showing the applicability and use of MATLAB are presented throughout the book Wherever appropriate the use of MATLAB functions offering shortcuts and alternatives to otherwise long and tedious numerical solutions is also demonstrated At the end of every chapter a set of problems is included covering the material presented A solutions manual to these exercises is available to instructors **Biomedical Mass Transport and Chemical Reaction** James S. Ultman, Harihara Baskaran, Gerald M. Saidel, 2016-06-13 Teaches the fundamentals of mass transport with a unique approach emphasizing engineering principles in a biomedical environment Includes a basic review of physiology chemical thermodynamics chemical kinetics mass transport fluid mechanics and relevant mathematical methods Teaches engineering principles and mathematical modelling useful in the broad range of problems that students will encounter in their academic programs as well as later on in their careers Illustrates principles with examples taken from physiology and medicine or with design problems involving biomedical devices Stresses the simplification of problem formulations based on key geometric and functional features that permit practical analyses of biomedical applications Offers a web site of homework problems associated with each chapter and solutions available to instructors Homework problems related to each chapter are available from a supplementary website

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secession artists turned their back on the historical styles