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analysis in aerospace civil and mechanical engineering but today mechanics of materials is used in electronic packaging medical implants the explanation of geological movements and the manufacturing of wood products to meet specific strength requirements Though the principles in mechanics of materials have not changed in the past hundred years the presentation of these principles must evolve to provide the students with a foundation that will permit them to readily incorporate the growing body of knowledge as an extension of the fundamental principles and not as something added on and vaguely connected to what they already know This has been my primary motivation for writing the textbook Learning the course content is not an end in itself but a part of an educational process Some of the serendipitous development of theories in mechanics of materials the mistakes made and the controversies that arose from these mistakes are all part of the human drama that has many educational values including learning from others mistakes the struggle in understanding difficult concepts and the fruits of perseverance The connection of ideas and concepts discussed in a chapter to advanced modern techniques also has educational value including continuity and integration of subject material a starting reference point in a literature search an alternative perspective and an application of the subject material Triumphs and tragedies in engineering that arose from proper or improper applications of mechanics of materials concepts have emotive impact that helps in learning and retention of concepts according to neuroscience and education research Incorporating educational values from history advanced topics and mechanics of materials in action or inaction without distracting the student from the central ideas and concepts is an important complementary objective of the textbook

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