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order elasticity or stiffness tensor describing hooke s law structural mechanics is a third fourth year that provides an advanced overview of structural mechanics it covers the concepts of stress strain linear elasticity and then apply them to standard problems in 2d and 3d this course teaches students fundamental concepts of structural mechanics with applications to marine civil and mechanical structures course outcomes course goals for students use the one dimensional and two dimensional structural idealizations of beams columns columns rods and shell beams to determine stress and deformation states within the structural mechanics and design track of the meng degree program students pursue curriculum and research in areas including structural engineering mechanics computational design and optimization and collaborative workflows at the interface of engineering and architecture 16 20 is a junior and senior level course which provides the fundamental knowledge to understand analyze and design load bearing structures although the focus is on aerospace applications the theory and the majority of the applications are equally relevant in other areas of structural analysis this section contains readings from the course notes an optional textbook reading lecture video excerpts class slides with checkpoint questions self assessment questions and related resources this course covers the fundamental concepts of structural mechanics with applications to marine civil and mechanical structures topics include analysis of small deflections of beams moderately large deflections of beams columns cables and shafts elastic and plastic buckling of columns thin walled sections and plates exact and mit civil and environmental engineering master of engineering structural mechanics and design 1 thg thesis guidelines the meng thesis is the result of an individual research project conducted by each student in the program in close collaboration with their faculty thesis supervisor thesis 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