and the Student Academic Hon pstijc y
eoretical concepts and principles necessary for the application of the finite on of differential equations in engineering
oply basic steps of finite element formulation. nalyzeonedimensional beam problems using finite element method nalyze twedimensional frame problems using finite element method. Albook nalyze eigenvalue and tidependent problemsing finite element method. nalyze twedimensional solid elasticity problems using finite element method.
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homework assignments.

ClassProtocol Independent work on assignments stexpected. Copying from Solutions Manual or online resources is strictly prohibited.

Grading Scale

many programs and facilities which are free to all students and members caracters of states of the members limitless opportunities. For more information about our secretaries which are free to all students and members care of the members limitless opportunities. For more information about our secretaries which are free to all students and members care of the members limitless opportunities.

Video and Audio Recording

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TentativeSchedulefor 15 week class

Week	Date	Topics, Readings, Assignments Deadlines	
1	8/19—8/23	Integral formulations and ariational method	
2		Weighted-integral method, define boundary, initial, and eigenvalue	
		problems, calaulus of variation	
3		Homework #1 due.Variational calculus, the Euler equation, "weak" form	
		formulation, weighted integral form	
4		The method ofweighted residuals, Petre@alerkin method, Galerkin	
		method, leastsquare method, collocatida Tm -0 0 11.04 199.5611.04-2	2.9 (i92.6 42.