

Ce 405 Design Of Steel Structures Prof Dr A Varma

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma 5.3 DESIGN PROVISIONS FOR BOLTED SHEAR CONNECTIONS • In a simple connection, all bolts share the load equally. T T T/n T/n T/n T/n T/n • In a bolted shear connection, the bolts are subjected to shear and the connecting / connected plates are subjected to bearing stresses. Bolt in shear

CE 405: Design of Steel Structures – Prof. Dr. A. Varma

CE 405: Design of Steel Structures – Prof. Dr. A. Varma Tension Member Design Example 3.1 A 5 x ½ bar of A572 Gr. 50 steel is used as a tension member. It is connected to a gusset plate with six 7/8 in. diameter bolts as shown in below. Assume that the effective net area

CE 405: Design of Steel Structures – Prof. Dr. A. Varma ...

CE 405: Design of Steel Structures – Prof. Dr. A. Varma 1.5 STRUCTURAL CONNECTIONS Members of a structural frame are connected together using connections. Prominent connection types include: (1) truss / bracing member connections; (2) simple shear connections; (3) fully-restrained moment connections; and (4) partially-restrained flexible moment

1.0 INTRODUCTION TO STRUCTURAL ENGINEERING 1.1 GENERAL ...

Ce 405 Design Of Steel CE 405: Design of Steel Structures – Prof. Dr. A. Varma Tension Member Design - Therefore, design strength = 73.125 kips (net section fracture controls). Example 3.2 A single angle tension member, L 4 x 4 x 3/8 in. made from A36 steel is connected to a gusset plate with 5/8 in. diameter bolts, as shown in Figure ...

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma Example 3b.2 Design a double angle tension member and connection system to carry a factored load of 250 kips. Solution Step I. Assume material properties ? Assume 36 ksi steel for designing the member and the gusset plates. ? Assume E70XX electrode for the fillet welds.

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma The governing slenderness ratio is the larger of $(K_x L_x / r_x, K_y L_y / r_y)$ $K_y L_y / r_y$ is larger and the governing slenderness ratio; $\lambda_c = E F_r K L_y / y y y = 1.085 \lambda_c < 1.5$; Therefore, $F_{cr} = () 2 0.658 \lambda_c F_y$ Therefore, $F_{cr} = 21.99$ ksi Design column strength = $\lambda_c P_n = 0.85 (A_g F_{cr}) = 0.85 (21.8$ in

CHAPTER 3. COMPRESSION MEMBER DESIGN 3.1 INTRODUCTORY CONCEPTS

CE 405: Design of Steel Structures – Prof. Dr. A. Varma 2.2 Flexural Deflection of Beams – Serviceability Steel beams are designed for the factored design loads. The moment capacity, i.e., the factored moment strength ($\phi_b M_n$) should be greater than the moment (M_u) caused by the factored loads.

Chapter 2. Design of Beams – Flexure and Shear

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma Homework No. 1: Structural Engineering and Design Loads A two-dimensional (2D) building frame is shown in the following figures. The dead loads, live loads, roof loads, snow loads, and wind loads acting on the frame have been determined using the ASCE 7-98 Standards, and are shown in the Figures.

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma properly certified, and for critical work, special inspection techniques such as radiography or ultrasonic testing must be used. • The two most common types of welds are the fillet weld and the groove weld.

CE470_F07_Ch3b_Welds - CE405:Dr.A.Varma CHAPTER 3b WELDED ...

CE 8030 Advanced Steel Design (Graduate course) CE 2010 Statics Michigan State University Guided PhD and MSc students through experiments, numerical simulation and writing journal articles. CE 271 Field Plane Surveying . CE 405 Design of Steel Structures

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CE 405: Design of Steel Structures A_e equals the actual net area A_n and compute the tensile design strength of the member. b b a 5 x ? in. bar Gusset plate 7/8 in. diameter bolt Example 3.2 A single angle tension member, L 4 x 4 x 3/8 in. made from A36 steel is connected