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CONNECTION 5.1 INTRODUCTORY
CONCEPTS | Marianne dela
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Varma 5.3 DESIGN PROVISIONS
FOR BOLTED SHEAR CONNECTIONS

- In a simple connection, all bolts share the load equally. T/n T/n T/n T/n T/n T/n T/n T/n
- In a bolted shear connection, the bolts are subjected to shear and the

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connecting / connected
plates are subjected to
bearing stresses. Bolt in
shear

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Varma Tension Member Design
Example 3.1 A 5 x $\frac{1}{2}$ bar of
A572 Gr. 50 steel is used as
a tension member. It is
connected to a gusset plate
with six $\frac{7}{8}$ in. diameter

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bolts as shown in below.
Assume that the effective
net area

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Varma 1.5 STRUCTURAL

CONNECTIONS Members of a

structural frame are

connected together using

connections. Prominent

connection types include:

(1) truss / bracing member

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connections; (2) simple shear connections; (3) fully-restrained moment connections; and (4) partially-restrained flexible moment

1.0 INTRODUCTION TO

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STRUCTURAL ENGINEERING 1.1

GENERAL . . .

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Varma Tension Member Design
- Therefore, design strength
= 73.125 kips (net section

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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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Varma Example 3b.2 Design a

double angle tension member

and connection system to

carry a factored load of 250

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Prof. Dr. A. Varma 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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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

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governing slenderness ratio;

$$\lambda_c = \frac{E F_r K L_y}{F_y} =$$

$$1.085 < 1.5; \text{ Therefore,}$$

$$F_{cr} = (0.658)^{\lambda_c} F_y$$

$$\text{Therefore, } F_{cr} = 21.99 \text{ ksi}$$

Design column strength =

$$\phi_c P_n = 0.85 (A_g F_{cr}) = 0.85$$

$$(21.8 \text{ in})$$

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CHAPTER 3. COMPRESSION

MEMBER DESIGN 3.1

INTRODUCTORY CONCEPTS

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Varma 2.2 Flexural
Deflection of Beams -

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Serviceability Steel beams are designed for the factored design loads. The moment capacity, i.e., the factored moment strength (ϕM_n) should be greater than the moment (M_u) caused by the factored loads.

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Chapter 2. Design of Beams - Flexure and Shear

CE 405 - Design of Steel Structures. Design of steel beams, columns, tension members and connections. Stability and plastic

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strength. Overview;
Venkatesh K Kodur

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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

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loads acting on the frame have been determined using the ASCE 7-98 Standards, and are shown in the Figures.

(Get Answer) - CE 405:

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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

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two most common types of welds are the fillet weld and the groove weld.

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WELDED ...

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Teaching | M. Z. Naser, PhD,
PE

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Structures A_e equals the
actual net area A_n and

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compute the tensile design strength of the member. b b
a 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

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