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The 5th edition is very similar to the 4th edition, only it has been updated to follow the AISC 13th edition steel design specification. In keeping with the combined nature of the 13th edition code, there are examples in both ASD and LRFD design philosophies.

**Amazon.com: Customer reviews: Steel Structures: Design and ...**

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(a) Calculate the value of  $\phi$  for A36 steel. Note that the resistance factor is 0.90 for the yielding limit state. Substitute 0.90 for  $\phi$ , 36 for  $F_y$ , and 6.94 for  $P_u$  in equation (1): Use the gravity load combination equation to relate the design strength to the service loads.

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CE 426 Structural Steel Design or an equivalent undergraduate course in structural steel design. Working knowledge of AISC design requirements for rolled steel shapes subjected to tension,



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compression, and flexure is required. ... Steel Structures – Design and Behavior, Fifth Edition, Pearson Prentice Hall, Charles G. Salmon, John E. Johnson ...

## **CE 523 Theory and Behavior of Steel Structures ...**

NC Steel Bridge Forum September 14, 2011 Structural Behavior of Steel D. White 3 2. Behavior and Structure Types I-Section Stringer Systems • Framing arrangements • Shear lag and slab effective width • Fundamental curved and skewed bridge behavior • Flange level lateral bracing • Integral piers and abutments • Temperature movements 5

## **D White Ch 6 Behavior of Structural Steel**

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elementary mathematics to a more sophisticated treatment demanding a thorough knowledge of structural and material behavior.

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ASCE7-10 (referenced in the 2012 IBC) has 84 different types of structures listed from concrete to masonry to steel to wood to metal stud and shearwalls to moment frames. As a point of reference, back in 1997 when NEHRP issued their recommendations for seismic design, there were 69 building types.

### **SEISMIC RESPONSE MODIFICATION FACTOR - R - Fitzpatrick ...**

The walls and floors tend to compartmentalize the fire and hold it in one area. The primary fire hazard in this, as with all the others, is the contents — the stuff we put into the structure. As

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the insulation is knocked off/scraped off, exposure of the structural steel components to the heat leads to elongation and collapse.

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