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properties of structural steel. Limit State Design Of Steel identified

for design purposes: x Ultimate Limit State is related to the

maximum design load capacity under extreme conditions. The

partial load factors are chosen to reflect the probability of

extreme conditions, when loads act alone or in combination. x

Serviceability Limit State is related to the criteria governing

normal use. Unfactored loads are used to check the adequacy of the structure. x Fatigue Limit State is important

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stress-strain curve is non-linear.

comparison of working stress method and limit state method A limit state is a state of impending failure, beyond which a structure ceases to perform its intended function satisfactorily, in terms of either strength or serviceability; i.e., it either collapses or becomes unserviceable.

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