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Fatigue In Welded Steel Structures Machine Design it is also important to remember that the fatigue life of welded structures is independent of material strength in fact in some cases higher strength steels such as class a514 prove to be less Fatigue Strength Of Welded Structures Sciencedirect

Welding is a manufacturing method used to join various materials in order to form an assembly. During welding, joints are formed between two or more separate pieces of material. A welded joint subjected to cyclic loading could fail due to fatigue. Fatigue results from this cyclic loading, as well as strains, in the material. Throughout a welded assembly's life, cracks, which reduce the fatigue life of a joint, could initiate, propagate, and grow causing the assembly to fail even if these cyclic

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