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| 6.2) Estimate in kpsi for the following materials:  (a) AISI 1035 CD steel. Sut:= 80    (b) AISI 1050 HR steel. Sut:= 90    (c) 2024 T4 aluminum.  Aluminum has no endurance liment  (d) AISI 4130 steel heat-treated to a tensile strength of 235 kpsi. |  |

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| 6-3) A steel rotating-beam test specimen has an ultimate strength of 120 kpsi. Estimate the life of the specimen if it is tested at a completely reversed stress amplitude of 70 kpsi. |  |

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| 6-5) A steel rotating-beam test specimen has an ultimate strength of 230 kpsi. Estimate the fatigue strength corresponding to a life of 150 kcycles of stress reversal. |  |