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Two methods of metal fatigue analysis will be covered. The first is the stress-life approach. This method is used for high cycle or very long life fatigue problems where loads have fairly constant amplitude. Applications of this method include engine components, gears and shafts. The second method is the strain life approach,...

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1. Bannantine, J., Corner, Handrock, Fundamentals of Metal Fatigue Analysis, Prentice-Hall, 1990....(good general

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reference) 2. Dowling, N., Mechanical Behaviour of Materials, Prentice Hall, 2011, 3rd edition (middle chapters are a great overview of most recent approaches to fatigue analysis), 3.

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Fatigue un der high
temperature is rate
dependant. 1.2.4

Factors influencing
fatigue life Fig. 2.

Types of fatigue cycles

A. Metal microstructure

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: Metal with large grains have low yield strength and reduced fatigue limit and vice-versa. However, at higher temper atures, the coarse grained metal is seen to show better fatigue properties.