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splat quenching, however it may become stable after annealing at high temperature (Yeh et al., 2004a). Some studies have shown that mechanical alloying lead to a HE alloy with more homogenous and stable nano-crystalline microstructures (Chen et al., 2009 a,b).

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The microstructure and mechanical behavior of modern high

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Keywords: high temperature materials, materials science, computational materials science, superalloys, ceramics, high temperature fuel cells, coal gasification, environment Contents 1. Introduction 2. Review of Current High Temperature Structural Materials 2.1.

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The Americas Journal of Plant Science and Biotechnology ©2010 Global Science Books High Daytime Temperature Stress Effects on the ... Modern Obsolete * Temperature (oC) a a a a b a Fig. 1 Effect of high daytime temperature on leaf photosynthesis of modern versus obsolete cotton cultivars.

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devices. Temperature is a very critical and widely measured variable for most mechanical engineers. Many processes must have either a monitored or controlled temperature. This can range from the simple monitoring of the water temperature of an engine or load device, or as complex as the temperature of a weld in a laser welding application.

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