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 Thermodynamics began with the study of heat and work effects and relations between heat and work. Some early

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thermodynamics problems were for very practical problems. For example, in a steam engine heat is supplied to water to create steam. The steam is then used to turn an engine which does work.

Finally, the water is exhausted to

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Introduction to the Thermodynamics of Materials, Fifth Edition (David R. Gaskell) Problem 13.13: UC2 can be equilibrated with UC and C at high temperature and can be

equilibrated with U2C3 and C at lower temperatures. Calculate the maximum and minimum temperatures at which UC2 can exist.

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## **Lecture 16: 11.04.05 Single-Component phase**

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## diagrams ...

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Supplementary Reading: - Lecture 17 – single-component phase diagrams; thermo of solutions 1 of 15 11/4/05

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