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(Accreditation Board for Engineering and Technology). Today, thermodynamic systems and cycles are fertile ground for engineering design. For example, niches exist for

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innovative power generation systems due to deregulation, co-generation, unstable fuel costs and concern for global warming. Professor Kenneth Forbus of the computer science and education

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department at Northwestern University has developed ideal intelligent computer software for thermodynamic students called CyclePad. CyclePad is a cognitive engineering software. It

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which apply over the whole range of new technologies, considering: a new approach to cycles, enabling their irreversibility to be taken into account; a detailed study of combustion to show how the

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