

Virtual Library for Process Systems Engineering

<http://cepac.cheme.cmu.edu/pasilectures.htm>

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If you are teaching or taking a graduate level course in the area of Process Systems Engineering, you may want to learn about a new update of the virtual library on Process Systems Engineering. This library was initially created from the workshop Pan American Advanced Studies Institute (PASI-2eeS) on Process Systems Engineering that took place on August 16-25, 2eeS, in Iguazu, Argentina. The library has been updated recently with material from the second workshop PASI-2ee8 on Emerging Trends in Process Systems Engineering that took place in Mar del Plata, Argentina, August 12-21, 2ee8. The goal of both these workshops was to provide a state-of-the-art review and to bring together faculty and Ph.D. students from various countries in the Americas (U.S., Canada, Mexico, Argentina, Brazil, Chile, Colombia and Venezuela).

The PASI-2eeS workshop covered the following areas:

- Optimization
- Process and Product Design
- Process and Supply Chain Operations
- Process Dynamics and Control

and material on these topics can be found in:

<http://cepac.cheme.cmu.edufpasi2eeS/slides/index.htm>

while the PASI-2ees covered these areas:

- Advanced Modeling Tools
- Biosystems Engineering
- Multiscale Design of New Materials
- Complex Engineering Systems
- Sustainability
- New Energy Systems
- Enterprise-wide Optimization

and material on these topics can be found in:

<http://cepac.cheme.cmu.edu/pasi2eeS/slides/index.html>

The virtual library, <http://cepac.cheme.cmu.edu/pasilectures.htm>, consists of the Powerpoint slides of the presentations of each topic, which are largely tutorial in nature. These are complemented with background articles that provide comprehensive reviews. Exercises, as well as MATLAB and GAMS files are also available, including comprehensive exams for each workshop that contain questions with answers.

Members of the Process Systems Engineering community should hopefully find the material to be helpful since it contains useful overviews of areas that are of current interest and that are not normally found in textbooks and reference texts. We intend to periodically update the presentations, and we will appreciate your feedback or comments.

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