

PPEPPD (Ninth International Conference on Properties and Phase Equilibria for Product and Process Design , May 20 - May 25, 2001 Kurashiki, Japan )

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POLYELECTROLYTE  
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(oral presentations )

**The Use of Quantum Mechanics to Predict Phase Behavior for Environmental and Process Engineering**

Stanley I. Sandler, Shiang-Tai Lin and Amadeu K. Sum  
Department of Chemical Engineering, University of Delaware, Newark, DE 19716 USA

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**Electrolyte Solutions: From Thermodynamic and Transport Property Models to the Simulation of Industrial Processes**

Andrzej Anderko, Peiming Wang and Marshall Rafal  
OLI Systems, Inc., 108 American Road, Morris Plains, NJ 07950, USA

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**A Review on Equations of State Applicable to Polymers and Complex Systems**

Jeong Won Kang, Joo Ho Lee, Ki-Pung Yoo <sup>a</sup> and Chul Soo Lee <sup>\*</sup>  
Department of Chemical Engineering, Korea University, Seoul 136-701, Korea  
<sup>a</sup>Department of Chemical Engineering, Sogang University, CPO Box 1142, Seoul, Korea

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**Recent advances in the use of the SAFT approach in describing electrolytes, interfaces, liquid crystals and polymers**

Patrice Paricaud, Amparo Galindo, and George Jackson<sup>\*</sup>  
*Department of Chemical Engineering and Chemical Technology, Imperial College of Science, Technology and Medicine, Prince Consort Road, SW7 2BY, London, United Kingdom*

SAFT Debye-  
 Huckel MSA(mean spherical approximation) .  
 SAFT DFT(local density  
 functional theory) , alkane,alkene adsorption, co-  
 adsorption .

**UBIQUITOUS BUT UNUSUAL, ODD BUT ORDERED: RECENT  
 PROGRESS IN AQUEOUS THERMODYNAMICS**

Pablo G. Debenedetti  
 Department of Chemical Engineering  
 Princeton University  
 Princeton, NJ 08544  
 USA

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**The Growing Impact of Molecular Modeling on Process and Product  
 Design**

**Peter T. Cummings**  
 Departments of Chemical Engineering, Chemistry and Computer Science  
 University of Tennessee Knoxville, TN 37996-2200 USA  
 and  
 Chemical Technology Division Oak Ridge National Laboratory  
 Oak Ridge, TN 37831-6181

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