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years, thanks to results  
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Plant process systems engineering initiated in 1982. The meeting is brings together the worldwide PSE community of researchers and practitioners who are involved in the creation and application of computing-based methodologies for planning, design, operation, control and maintenance of chemical and petrochemical process industries. PSE'09 will look at how the PSE methods and tools can support sustainable resource systems and emerging technologies in the areas of green engineering: environmentally conscious design of industrial processes. PSE methods and

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Optimization methods in all engineering disciplines and applied sciences.

The 24th European Symposium on Computer Aided Process Engineering creates an international forum where scientific and industrial contributions of computer-aided techniques are presented with applications in process modeling and simulation, process synthesis and design, operation, and process optimization. The organizers have broadened the boundaries of Process Systems Engineering by inviting contributions at different scales of modeling

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and demonstrating vertical and horizontal integration. Contributions range from applications at the molecular level to the strategic level of the supply chain and sustainable development. They cover major classical themes, at the same time exploring a new range of applications that address the production of renewable forms of energy, environmental footprints and sustainable use of resources and water.

Competition from emerging and developing countries, challenges related to energy and water, the continuing increase in the

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Customers of specified markets. Such a process implies knowledge of BAT (best available techniques) in chemical engineering, plant design, production competitiveness, the proper utilization of tools (toolbox concept) such as value assessment, value engineering, eco-design, LCA (lifecycle analysis), process simulation, modeling, innovation and appropriate metrics usage. These are mandatory to ensure commercial success and covered by the authors of this book.

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