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Title: Industrial Application of RTO Technology at the Yanshan Ethylene Plant

Summary: This article introduces how AspenTech’s RTO Technology is successfully deployed at the Yanshan Ethylene Plant (Sinopec). As the most important intermediary product, optimizing ethylene production is very important in increasing the competitiveness of petrochemical enterprises. The Yanshan Ethylene Plant uses Aspen Plus RTO and Aspen Online for online optimization, data communication, processing and period optimization management.

Cost savings at the Yanshan Ethylene plant is about 500 – 1,500 Yuan per hour. This shows the impact of the optimization deployment.

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3.4 综合运用实例
(1) 工程设计应用
工程设计的初步设计、施工图设计、加工图设计等环节，都需要对设计进行合理选择和优化。

4 结论
RTO在化学工程中的广泛应用和成熟，为优化化学工程性能和提高资源利用效率提供了可能。RTO不仅在工业生产中体现其优势，也在环境科学、能源利用、化工过程控制等领域发挥重要作用。