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Optimization on shaft seals for a twin-screw steam compressor based on a novel uniform property region (UPR) model on discharge end-face

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Highlights:

- A model on leakage prediction from screw compressor discharge end to shaft seals.
- Effects of several main parameters in shaft seals were analyzed.
- Several suggestions were given on optimizing the shaft seals.
- Pressure on screw compressor discharge end-face should be calculated by UPR model.

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