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Analytical Modeling and Numerical Simulation of Heat Transfer in a Skin Evaporator

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**Highlights**

- A 1D model and a 2D simulation were developed to study skin evaporators
- Model complexity was reduced by simplifying heat transfer to 1D heat conduction
- Visualization of the results showed how different elements affect heat transfer
- The root-mean-square deviation of temperatures between the models was under 0.6 K
- Experimental, model and simulation results were within  $\pm 12\%$

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