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A Sub-Space Artificial Neural Network for Mold Cooling in Injection Molding

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**Highlights**

- Cavity Temperature Profile (CTP) in injection molding is investigated.
- A combined Artificial Neural Network (ANN) and State Space Model (SSM) is formulated.
- ANNs are used to estimate governing SSM parameters on-line.
- The model predicts the CTP during the injection cycle based on a number of previous cycles.

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