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Title: Systematic Evaluation of Mathematical Methods and Numerical Schemes for Modeling PCM-enhanced Building Enclosure

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- Outlines the calculation procedure for various numerical models
- Validation and verification efforts indicate the reliability of results.
- Heat capacity method is slow and requires small time step for accurate results.
- A new hybrid correction scheme is proposed and validated.
- Correction schemes are computational efficient, accurate and less sensitive to PCM's properties.

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