

## Accepted Manuscript

Influence of Magnetic Field on Direct Contact Melting Transport Processes Undergoing Rotation

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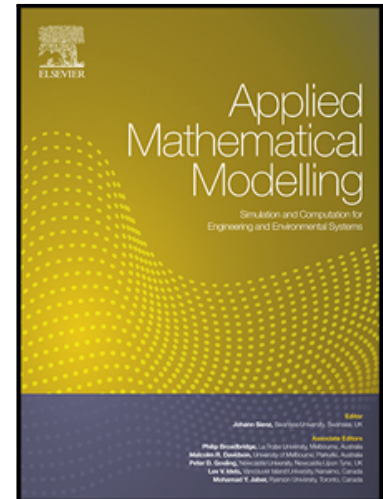
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**Highlights**

- Developing mathematical model for 3D rotating contact melting process subject to magnetic fields
- Performing a simplifying nonlinear melt layer film fluid dynamics and heat transfer with MHD effects for rotating heater
- Numerical solution of a rotating contact melting transport processes using finite difference scheme

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