

Analysis of the Czochralski Crystal Growth System

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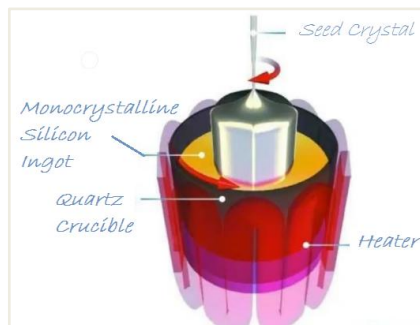
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Introduction

The Czochralski technique is the most widely applied method for the growth of bulk single Crystals.

In the present study, we explore how it can be analyzed with modeling and simulation.



Conclusion

The Czochralski (CZ) crystal growth is the main method for the production of many crystalline materials that are the basis of, e.g., solar cells, and microelectronics. Modeling of the CZ process, including the multi-physical phenomena involved is an essential tool for process development and optimization.

Reference

- [1] A. Enders- et al. "Development and validation of a thermal simulation for the CZ crystal growth process using model experiments". J Crystal growth 593 (2022)
- [2] <https://www.sciencedirect.com/science/article/pii/S0022024825001034>