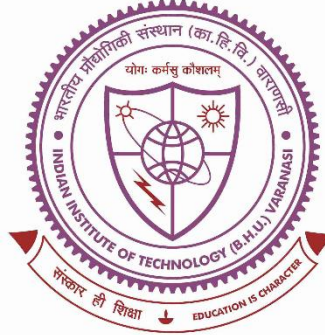


**BEHAVIOR OF A356 AND A319 ALUMINUM ALLOY CASTINGS
SOLIDIFIED UNDER OSCILLATORY CONDITIONS**



Thesis submitted in partial fulfillment

For the Award of Degree

Doctor of Philosophy

By

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