


Leandro Marques dos Santos

**AN ALE-FE METHOD FOR BLOOD FLOW DYNAMICS IN CORONARY
ARTERIES USING THE VORTICITY-STREAMFUNCTION
FORMULATION**

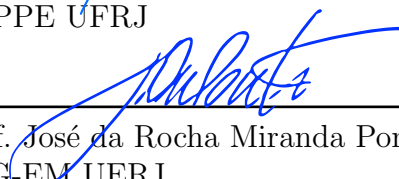
Master's Thesis presented to the Mechanical Engineering Graduate Program of the Universidade do Estado do Rio de Janeiro as a partial requirement to obtain the degree of Master in Sciences. Field of concentration: Transport Phenomena.

Approved on August 14, 2020.


Examining Committee:



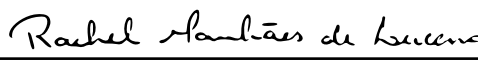
Prof. Gustavo Rabello dos Anjos, Ph.D. (Advisor)
COPPE UFRJ




Prof. José da Rocha Miranda Pontes, D.Sc. (Co-Advisor)
PPG-EM UERJ



Prof. Norberto Mangiavacchi, Ph.D.
PPG-EM UERJ



Rachel Manhães de Lucena, D.Sc.
PPG-EM UERJ



Prof. Gustavo Charles Peixoto de Oliveira, D.Sc.
PPG-EM UFPB

Rio de Janeiro, Brazil

2020