No. A - 20 215963





राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट

National Institute of Technology Calicut

upon the recommendation of the Senate, hereby confers on

MUTHAVARAPU ASWINI KUMAR

the degree of

Doctor of Philosophy

in the year 2021

Based on the thesis entitled:

DESIGN SPACE EXPLORATION OF CAPACITOR VOLTAGE BALANCING AND MODULATION METHODS FOR MODULAR MULTILEVEL CONVERTERS

Given at the National Institute of Technology Calicut on October 30, 2021





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