



ISSN No. : 2321-9653

IJRASET

**International Journal for Research in Applied
Science & Engineering Technology**

IJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

*It is here by certified that the paper ID : IJRASET18664, entitled
Application of Particle Swarm Optimization to Three Phase Phase-
Locked Loop*

by

Nur Basha Bharat Kumar

after review is found suitable and has been published in

Volume 6, Issue IX, September 2018

in

*International Journal for Research in Applied Science &
Engineering Technology*

Good luck for your future endeavors

By

Editor in Chief, IJRASET



ISRA Journal Impact
Factor: 7.429



45.98
INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

IJRASET

**International Journal for Research in Applied
Science & Engineering Technology**

IJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

*It is here by certified that the paper ID : IJRASET18664, entitled
Application of Particle Swarm Optimization to Three Phase Phase-
Locked Loop*

by

Nandigam Rama Narayana

after review is found suitable and has been published in

Volume 6, Issue IX, September 2018

in

*International Journal for Research in Applied Science &
Engineering Technology*

Good luck for your future endeavors

Ry rana

Editor in Chief, IJRASET

ISRA
JIF

ISRA Journal Impact
Factor: 7.429



45.98
INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429