

CANDIDATE’S DECLARATION

I, Shashi Tiwari, certify that the work embodied in this Ph. D. thesis is my own bonafide work carried out by me under the joint supervision of Prof. S. K. Balasubramanian and Prof. Rajiv Prakash for a period of four years and eight months from August 2010 to April 2015 in the Department of Electronics Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi. The matter embodied in this Ph.D. thesis has not been submitted for the award of any other degree/diploma.

I declare that I have faithfully acknowledged, given credit to and referred to the research workers wherever their works have been cited in the text and the body of the thesis. I further certify that I have not willfully lifted up some other’s work, para, text, data, results, etc. reported in the journals, books, magazines, reports, dissertations, theses, etc., or available at websites and included them in this Ph. D. thesis and cited as my own work.

Date:

Place: Varanasi

(Shashi Tiwari)

Certificate from the Supervisors

This is to certify that the above statement made by the candidate is correct to the best of our knowledge.

Supervisors

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