

DESIGN OF DISCRETE HIGH PASS FILTER FOR HIGH SPEED OPERATION

ROHITASHWARASTOGI, PARAS & ABHISKEKTOMAR

Department of Electronics & Communication Engineering, College of Technology,

G. B. Pant University of Ag & Technology, Pantnagar, Uttarakhand, India

ABSTRACT

This paper presents a comparison of all discretization methods involved in design of Digital recursive filter and proposes a method to design a High Pass Filter with flat magnitude response in pass band for High Speed Application. The optimization is achieved by Correction of Filter Coefficients. The performance of three methods of filter designs have been compared.

KEYWORDS: *Discrete Filter, Discretization, Parameter Correction, Step Response, LPF(Low Pass Filter), HPF (High Pass Filter)*

Received: Jun 08, 2016; **Accepted:** Jul 09, 2016; **Published:** Jul 13, 2016; **Paper Id.:** JEEEDec20161