

# Matlab Code to Design A Slotted Waveguide Array Antenna

Aritra Roy

Lab-STICC, Université de Bretagne Occidentale  
Brest, France  
aritra.roy@univ-brest.fr

## Abstract

This article presents a MATLAB script used to design slotted waveguide array (SWA) antennas. A brief theory of the antenna is discussed to understand the scope and requirement of this code. A numerical comparison is also presented to design a SWA of 25 GHz to validate the proposed script.

## I. INTRODUCTION

Slotted waveguide array antenna is known for its high power radiation and is often employed in space applications. It possesses a significantly high antenna gain by exploiting the radiations through multiple slots placed at half wavelength distances. The effects of slots on waveguide is thoroughly discussed in [1] which inspired the design of SWA as discussed in [2]–[4]. The slot placement on the waveguide plays a critical role to optimize the antenna radiation at a given frequency. In this article a MATLAB script is presented which is inspired by the analytical discussion presented in [3], [4]. A brief theory of SWA is discussed in Sec. II which is followed by the Matlab script in Sec. III, numerical validation in Sec. IV and conclusion in Sec. V.

## II. THEORY

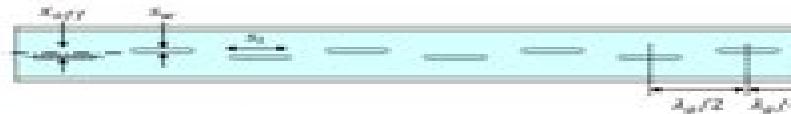


Fig. 1. Schematic of a SWA indicating the slot length  $a_s$ , slot width  $a_w$  and slot offset from the longitudinal axis  $x_{s,yy}$ .  $\lambda_g$  is the guided wavelength at the operating frequency considering the waveguide dimensions.

Schematic of a conventional SWA is shown in Fig. 1. It consists of a rectangular waveguide terminated at one end with multiple slots on one of its broad wall. The slots are placed longitudinally in a tandem orientation by maintaining a distance of the multiple of the guided wavelength ( $\lambda_g$ ). It increases the interaction of slots with the standing wave inside the terminated waveguide to increases the antenna radiation. The total radiated electric field ( $E_r(\theta)$ ) can be approximated using array theory by considering the radiation from individual slots

$$E_r(\theta) = f(\theta) \sum_{n=1}^N \alpha_n e^{jnk^2 \theta \cos \theta} \quad (1)$$

where,  $f(\theta)$  the is radiated electric field of a slot,  $\alpha_n$  is the magnitude of excitation coefficient of the  $n$ th slot,  $k$  is the free space wave number at the operating frequency and  $\theta$  is the angle of observation. Since the slot-field is a function its placement about the waveguide axis, the conductance of the  $n$ th slot can be calculated from the excitation coefficients as

$$g_n = \frac{\alpha_n^2}{\sum_{n=1}^{N/2} \alpha_n^2} \quad (2)$$

It can also be expressed in terms of the design parameters of the SWA as

$$g_n = 2.09 \frac{\lambda_g}{\lambda_0} \frac{a}{b} \cos^2 \left( \frac{\pi \lambda_0}{2 \lambda_g} \sin^2 \left( \frac{\pi x_{s,yy}}{a} \right) \right) \quad (3)$$

where,  $a$  and  $b$  are the inner dimensions of the corresponding waveguide. These equations are used to design the SWAs at the operating frequency as will be explained in the following section.

# Dielectric Waveguide Model Matlab Code

**Stuart M. Wentworth**

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