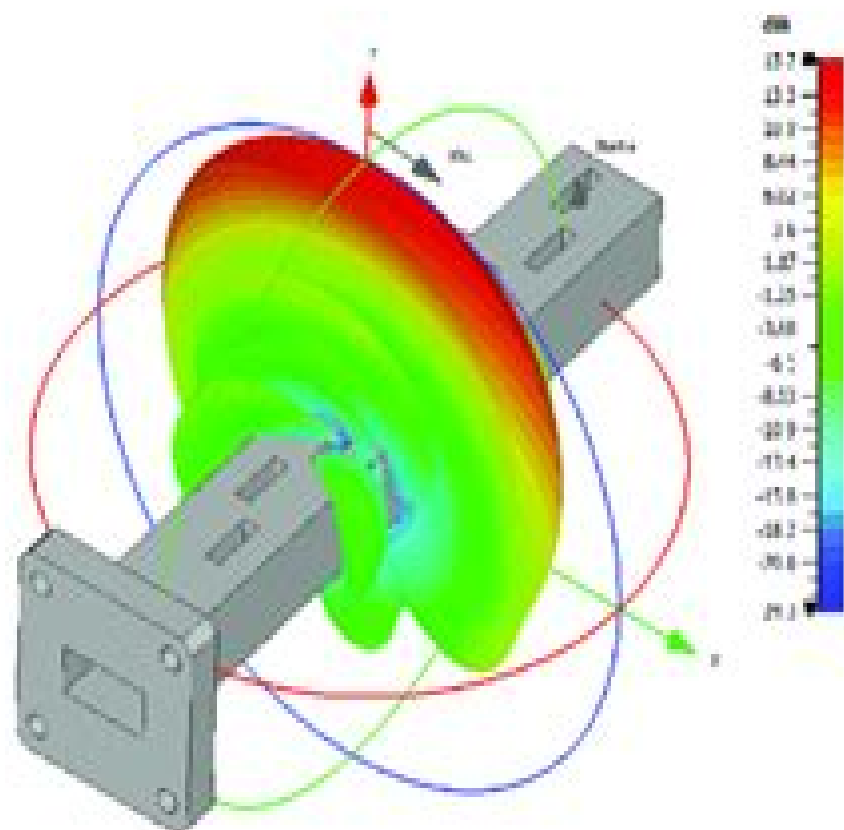
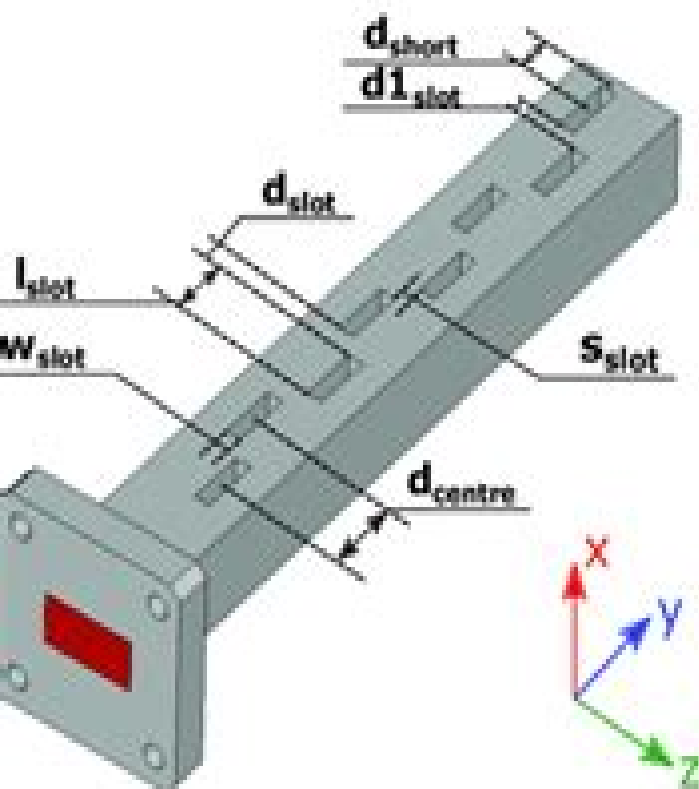
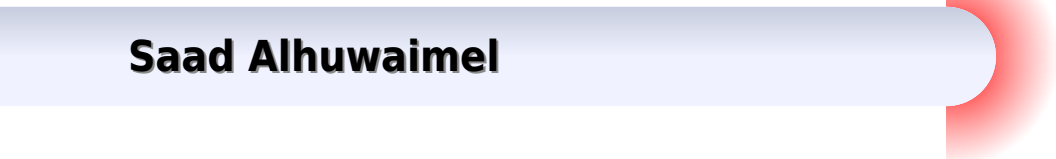


Parameter	Value [mm]	Description
l_{slot}	9.92	Slot length
w_{slot}	1.75	Slot width
d_{center}	13.45	Slot centers distances
d_{slot}	3.53	Longitudinal distance between slots
$d1_{slot}$	2.53	Last two slots distance
s_{slot}	2.75	Transversal distance between slots
d_{short}	6.455	Last slot center to short wall distance



Slotted Waveguide Antenna Calculator

Saad Alhuwaimel



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Millimeter Wave and Terahertz Devices for 5G and 6G systems K. Vasu Babu, Sudipta Das, Gorre Naga Jyothi Sree, Varakumari Samudrala, Beulah Jackson, 2025-08-10 This book explores wireless communication elements focusing on mm and THz wave generation specifications material innovations machine learning integration and applications Computational methods like genetic algorithms and artificial neural networks optimize mm wave and THz devices The microwave spectrum is often crowded making millimeter mm wave and terahertz frequencies the preferred choice for next generation high end applications Millimeter wave mm Wave fifth generation 5G communication technology addresses reduced time delays increased data transmission speeds and minimized energy consumption crucial for diverse user devices While 5G networks advance with Multiple Input Multiple Output MIMO multiplexing and mm wave communications the THz band offers even greater spectrum availability for systems like 6G The surge in THz systems research aims to meet expanding technological demands promising unprecedented data rates THz wave technology finds applications in wireless communications remote sensing and chemical analysis For THz wave technologists this book is a valuable resource covering research trends and demands along with computational simulation methods Topics include Terahertz passive circuit modeling mm wave device simulation Terahertz metrology data transmission via mm wave and THz signals high speed channel modeling antenna design graphene applications in 6G devices THz absorbers and sensors

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