



< Back to results | 1 of 1

Download Print Save to PDF Add to List More... >

Full Text

2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022 - Proceedings • Pages 1184 - 1185 • 2022 • 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022 • Denver • 10 July 2022 through 15 July 2022 • Code 182906

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-166549658-2

DOI

10.1109/AP-S/USNC-URSI47032.2022.9886499

Publisher

Institute of Electrical and Electronics Engineers Inc.

Sponsors

IEEE Antennas and Propagation Society • The Institute of Electrical and Electronics Engineers

Original language

English

View less ^

Design of Dual-Linearly Polarized Patch Antenna at Millimetrewaves

[Hamzah S.Z.M.](#) ; [Malek N.F.A.](#) ; [Isa F.N.M.](#) ; [Mohammad S.Y.](#) ; [Azman A.W.](#) ;

[Islam M.R.](#)

Save all to author list

^a International Islamic University Malaysia, Microwave Communication & Information System Engineering Research Group (MCISERG), Department of Electrical and Computer Engineering, Kuala Lumpur, 53100, Malaysia

2

Views count

View all metrics >

Full text options Export

Cited by 0 documents

Inform me when this document is cited in Scopus:

Set citation alert >

Related documents

A circularly polarized cavity-backed stacked patch antenna for wide-angle beam scanning millimeter-wave phased array

Ikeda, S. , Yokokawa, K. , Nakamoto, N.

(2021) *2020 International Symposium on Antennas and Propagation, ISAP 2020*

A Compact 28 GHz Millimeter Wave Antenna for Future Wireless Communication

Khan, S. , Bashir, A. , Ali, H. (2022) *Computers, Materials and Continua*

Multilayer Slab AFSIW Antipodal Linearly Tapered Slot Antenna with Cross-Polarization Reduction

Nguyen, N.-H. , Ghiotto, A. , Vilcot, A.

(2021) *IEEE Antennas and Wireless Propagation Letters*

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

Abstract

Indexed keywords

SciVal Topics

Metrics

Abstract

Phased array antenna capable of providing wider scanning range of beam radiation. The conventional phased array antenna mostly covered a single polarization of beam radiation. Therefore, by improving the phased array antenna design by implementing dual polarization will enhance the capacity of beam radiation to radiate at wide angular angle. A dual linearly polarized phased array antenna slanted at $\pm 45^\circ$ has been designed to operate at frequency of 28 GHz by using CST tool. Based on the simulation performance, the reflection coefficient (S11) and radiation pattern of both single and array antenna shows a good performance. The S11 value for both single and array antenna are -11.36 dB, and -20.17 dB, respectively. The gain of single slanted -45° , single slanted $+45^\circ$, and $1 \times 2 \pm 45^\circ$ array patch antenna are 7.48 dB, 7.47 dB, and 7.08 dB. © 2022 IEEE.

Indexed keywords 

SciVal Topics  

Metrics 

References (3)

[View in search results format >](#)

All

[Export](#)  [Print](#)  [E-mail](#)  [Save to PDF](#) [Create bibliography](#)

-
- 1 Hazdra, P., Kracek, J., Lonsky, T., Kabourek, V., Hradecky, Z.
Shared-aperture 24–28 ghz waveguide antenna array
([Open Access](#))
- (2021) *Electronics (Switzerland)*, 10 (23), art. no. 2976. Cited 2 times.
<https://www.mdpi.com/2079-9292/10/23/2976/pdf>
doi: 10.3390/electronics10232976
- [View at Publisher](#)

-
- 2 Kapusuz, K.Y., Lemey, S., Rogier, H.
Dual-Polarized 28-GHz Air-Filled SIW Phased Antenna Array for Next-Generation Cellular Systems ([Open Access](#))
- (2019) *IEEE International Symposium on Phased Array Systems and Technology*, 2019-October, art. no. 9020732. Cited 7 times.
ISBN: 978-172813049-1
doi: 10.1109/PAST43306.2019.9020732
- [View at Publisher](#)

-
- 3 Lindmark, B.
(1997) *A Novel Dual Polarized Aperture Coupled Patch Element with A Single Layer Feed Network and High Isolation*

© Copyright 2022 Elsevier B.V., All rights reserved.

About Scopus

[What is Scopus](#)

[Content coverage](#)

[Scopus blog](#)

[Scopus API](#)

[Privacy matters](#)

Language

[日本語版を表示する](#)

[查看简体中文版本](#)

[查看繁體中文版本](#)

[Просмотр версии на русском языке](#)

Customer Service

[Help](#)

[Tutorials](#)

[Contact us](#)

ELSEVIER

[Terms and conditions](#) ↗ [Privacy policy](#) ↗

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies ↗.

