

## បរណ្ណការណ៍

- [1] Munson, “Microstrip reflectarray for satellite communication and radar cross-section enhancement or reduction,” US Patent 4,684,952.
- [2] J. Huang, “Microstrip reflectarray antenna for SCANSAT radar application,” JPL publication 90-45, Nov. 15, 1990.
- [3] D.M. Pozar and T.A. Metzler, “Analysis of a reflectarray antenna using microstrip patches of variable size,” IEE Electron. Lett., Vol. 29, No.8, 1993, pp. 657-658.
- [4] S.D. Targonski and D.M. Pozar, “Analysis and design of a microstrip reflectarray using patches of variable size,” IEEE AP-S/URSI Symp. Dig., Seattle, WA, 1994, pp 1820-1823.
- [5] D.M. Pozar, S.D. Targonski, and H.D. Syrigos “Design of millimeter wave microstrip reflectarray,” IEEE Tran. On Antenna and Propagation, Vol.45, No.2, 1997, pp. 287-296.
- [6] D.C. Chang and M.C. Huang, “Microstrip reflectarray antenna with offset feed,” IEE Electron. Lett., Vol. 29, No.16, 1992, pp. 1489-1491.
- [7] D.C. Chang and M.C. Huang, “Multiple-polarization microstrip reflectarray antenna with high efficiency and low cross-polarization,” IEEE Tran. On Antenna and Propagation, Vol.43, No.8, 1995, pp. 829-834.
- [8] J. Huang and R.J. Pogorzelski, “A Ka-band microstrip reflectarray with elements having variable rotation angles,” IEEE Tran. On Antenna and Propagation, Vol.46, No.5, 1998, pp. 650-656.
- [9] D.C.Chang and M.C.Huang, “Multiple-polarization microstrip reflectarray antenna with high efficiency and low cross-polarization,” IEEE Tran. On Antenna and Propagation, Vol.43, No.8, 1995, pp. 829-834.
- [10] R.D. Javor, X.D. Wu, and K. Chang, “Design and performance of a microstrip reflectarray antenna,” IEEE Tran. On Antenna and Propagation, Vol.43, No.9, 1995, pp. 932-939.
- [11] T.N.Chang and Y.C.Wei, “Proximity-coupled microstrip reflectarray,” IEEE Tran. On Antenna and Propagation, Vol.52, No.2, 2004, pp. 631-635.
- [12] T.N.Chang and H.Suchen, “Microstrip reflectarray with QUAD-EMC element,” IEEE Tran. On Antenna and Propagation, Vol.53, No.6, 2005, pp. 1993-1997.

- [13] C. Han, C. Rodenbeck, J. Huang, and K. Chang, "A C/Ka dual frequency dual layer circularly polarized reflectarray antenna with microstrip ring elements," *IEEE Tran. On Antenna and Propagation*, Vol.52, No.11, 2004, pp. 2871-2876.
- [14] C. Han, J. Huang, and K. Chang, "A high offset-fed X/Ka-dual band reflectarray using thin membranes," *IEEE Tran. On Antenna and Propagation*, Vol.53, No.9, 2005, pp. 2792-2798.
- [15] D.M. Pozar, S.D. Targonski, and R. Pokuls, "A shaped-beam microstrip patch reflectarray," *IEEE Tran. On Antenna and Propagation*, Vol.47, No.7, 1999, pp. 1167-1173.
- [16] J.A. Encinar and J.A. Zornoza, "Three-layer printed reflectarray for contoured beam space application," *IEEE Tran. On Antenna and Propagation*, Vol.52, No.5, 2004, pp. 1138-1148.
- [17] J.A. Encinar, "Design of two-layer printed reflectarray using patches of variable size," *IEEE Tran. On Antenna and Propagation*, Vol.49, No.10, 2001, pp. 1403-1410.
- [18] D. Pilz and W. Menzel, "Folded reflectarray antenna," *IEE Electron. Lett.*, Vol. 34, No.9, 1998, pp. 832-833.
- [19] P. Krachodnok and R. Wongsan. "Design of Broad-Beam Microstrip Reflectarray," *WSEAS Transactions on Communication*. Issue 3, Vol. 7, March 2008, pp 180-187.
- [20] I-Fong Chen, Chia-Mei Peng, Sheng-Chieh Liang, "Single Layer Printed Monopole Antenna for Dual ISM-Band Operation," *IEEE Transactions on Antennas and Propagation*, 53(2): 1270-1273, 2005.
- [21] Taguchi, M., Egashira, S., Tanaka, K., "Sleeve Antenna with Ground Wires," *IEEE Transactions on Antennas and Propagation*, 39(1): 1-7, 1991.
- [22] James, J.D., and Hall, P.S. *Handbook of Microstrip Antenna*, Vol.1. London, 1989.
- [23] Raviprakash Rajaraman, "Design of A Wideband Vivaldi Antenna Array for the Snow Radar," *Technical Report CReSIS*, 2001.
- [24] Amena Kauser Syeda, "Design of a Wideband Vivaldi Antenna Array and Performance Enhancement of Small Vivaldi Arrays Using Baffles," *Technical Report CReSIS TR 106*, 2006.
- [25] Kai Fong Lee and Wei Chen, "Advance in Microstrip and Printed Antennas," *A Wiley-Interscience Publication*, John Wiley and Sons, INC., 1997.
- [26] P. J. Gibson, "The Vivaldi Aerial," Proc. 9<sup>th</sup> European, *Microwave Conference*, pp. 101-105, 1979.

- [27] Sreenivas Kasturi and Daniel H. Schaubert, "Effect of Dielectric Permittivity on Infinite Arrays of Single-Polarized Vivaldi Antennas," *IEEE Transactions on Antennas and Propagation*, 2006.
- [28] E. De Lera, E. Garcia, E. Rajo, D. Segovia, "A coplanar Vivaldi antenna with wide band balun proposal for the low frequency band of the SKA: approach to the FPA solution," *IEEE MELECON*, 2006.
- [29] Sang-Gyu Kim and Kai Chang, "Ultra Wideband 8 to 40 GHz Beam Scanning Phased Array using Antipodal Exponentially -Tapered Slot Antennas," *IEEE MTT-S Digest*, 2004.
- [30] Adel Elsherbini, Cemin Zhang, Song Lin, Michael Kuhn, Aladin Kamel, Aly E. Fathy and Hadia Elhennawy, "UWB Antipodal Vivaldi Antennas with Protruded Dielectric Rods for Higher Gain, Symmetric Patterns and Minimal Phase Center Variations," *Antennas and Propagation International Symposium*, 2007.
- [31] Aaron Zachary Hood, Tutku Karacolak, Erdem Topsakal, "A Small Antipodal Vivaldi Antenna for Ultra Wide Band Applications," *Antennas and Wireless Propagation Letters*, 2007.
- [32] Marc C. Greenberg, Kathleen L. Virga and Cynthia L. Hammond, "Performance Characteristics of the Dual Exponentially Tapered Slot Antenna (DETSA) for Wireless Communications Applications," *IEEE Transactions on Vehicular Technology*, Vol. 52, No. 2, 2003.



## ประวัติผู้เขียน

ป้ายภรณ์ กระฉองนกอก เกิดเมื่อ 9 กันยายน 2517 สำเร็จการศึกษาวิศวกรรมศาสตร์บัณฑิต สาขาวิชาวิศวกรรมโทรคมนาคม จากมหาวิทยาลัยเทคโนโลยีสุรนารี เมื่อปี 2540 และต่อมาได้ศึกษา ระดับปริญญาโทต่อค้ายุทธส่งเสริมผู้มีความสามารถพิเศษเป็นอาจารย์ของมหาวิทยาลัยเทคโนโลยีสุรนารี โดยสำเร็จการศึกษาวิศวกรรมศาสตร์มหาบัณฑิต สาขาวิศวกรรมไฟฟ้า(ไฟฟ้าสื่อสาร) จาก จุฬาลงกรณ์มหาวิทยาลัย และเมื่อปี 2550 ได้สำเร็จการศึกษาวิศวกรรมศาสตร์ดุษฎีบัณฑิต สาขาวิชา วิศวกรรมโทรคมนาคม จากมหาวิทยาลัยเทคโนโลยีสุรนารี ปัจจุบันเป็นอาจารย์ประจำสาขาวิชา วิศวกรรมโทรคมนาคม สำนักวิชาวิศวกรรมศาสตร์ มหาวิทยาลัยเทคโนโลยีสุรนารี งานวิจัยที่สนใจ ได้แก่ เทคโนโลยีสายอากาศ

