BIBLIOGRAPHY

[1] Badan Pusat Statistik Indonesia, “Statistika Indonesia 2024”.

[2] Asosiasi Penyelenggara Jasa Internet Indonesia, “Survei Penetrasi & Perilaku Internet 2023,” 2023.

[3] S. Amiri, B. Reif, and M. Program, “Internet Penetration and its Correlation to Gross Domestic Product: An Analysis of the Nordic Countries,” 2013. [Online]. Available: www.ijbhtnet.com

[4] A. Prakasa, “Studi Rancang Bangun Simulasi Sistem Telekomunikasi Berbasis Konstelasi Satelit LEO untuk Wilayah Indonesia,” *Jurnal Riset Rekayasa Elektro*, vol. 4, no. 1, pp. 23–28, 2022.

[5] Kementerian Komunikasi dan Informatika Republik Indonesia, “Laporan Tahunan KOMINFO 2022,” 2022.

[6] H. Fenech, S. Amos, A. Hirsch, and V. Soumpholphakdy, “VHTS Systems: Requirements and Evolution,” in *2017 11th European Conference on Antennas and Propagation (EUCAP)*, 2017 11th European Conference On , 2017.

[7] R. Swinford, B. Gertrau, and D. Bestwick, “High Throughput Satellites: Delivering future capacity needs,” 2015.

[8] D. Ignatius Kristiadi, M. Imam Nashiruddin, and M. Sudjai, “Techno-Economic Analysis of Advanced Ku-Band High Throughput Satellite to Fulfill Broadband Access Needs of Indonesian Government,” in *2021 IEEE Technology & Engineering Management Conference - Europe (TEMSCON-EUR)*, 2021.

[9] Kominfo, “Siaran Pers No. 101/HM/KOMINFO/06/2023 Tentang Sediakan Akses Internet Layanan Pubik, SATRIA 1 Siap Mengorbit,” 2023.

[10] Viasat Inc., “FY23 Environmental, Social, Governance (ESG) Impact Report,” 2023.

[11] W. Pradono, “Peluang dan Tantangan Pemanfaatan Frekuensi Ka-Band untuk Sistem Komunikasi Satelit,” *Buletin Pos dan Telekomunikasi*, vol. 15, no. 2, p. 105, Dec. 2017, doi: 10.17933/bpostel.2017.150204.

[12] U. Nd and M. Gass, “Fade Mitigation in Future Q/V-band High-Throughput Satellites.” [Online]. Available: http://applescores.ws.dei.polimi.it/index.php

[13] S. Hidayat, T. Ramdani, I. F. Alam, S. Sfenrianto, and E. R. Kaburuan, “The Role of High Throughput Satellite As Sky Highway Infrastructure to Support The Acceleration of Internet Entry Into Villages In Indonesia,” *International Journal of Mechanical Engineering and Technology (IJMET)*, vol. 10, no. 3, pp. 1447–1455, 2019, [Online]. Available: http://www.iaeme.com/IJMET/index.asp1447http://www.iaeme.com/ijmet/issues.asp?JType=IJMET&VType=10&IType=3http://www.iaeme.com/IJMET/issues.asp?JType=IJMET&VType=10&IType=3

[14] S. Ramadhani, H. Wijanto, and M. Sudjai, “Frequency Band Analysis and Spectrum Pricing For High Throughput Satellite in Indonesia.”

[15] L. J. I. Jr, *Satellite Communications Systems Engineering Atmospheric Effects, Satellite Link Design and System Performance*. 2008.

[16] G. Maral and M. Bousquet, “Satellite Communications Systems: Systems, Techniques and Technology.”

[17] KEMENKOMINFO, “PERATURAN MENTERI KOMUNIKASI DAN INFORMATIKA REPUBLIK INDONESIA NOMOR 13 TAHUN 2018 TENTANG TABEL ALOKASI SPEKTRUM FREKUENSI RADIO INDONESIA.” [Online]. Available: www.peraturan.go.id

[18] H. Fenech, “High-Throughput Satellites.”

[19] X. Tao, W. Ding, S. Wang, X. Zhang, W. Cui, and Q. Cui, “An Active Multi-Beam Antenna Design Method and Its Application for the Future 6G Satellite Network,” 2024, *American Association for the Advancement of Science*. doi: 10.34133/space.0149.

[20] M. Schneider, C. Hartwanger, and H. Wolf, “Antennas for multiple spot beam satellites,” *CEAS Space Journal*, vol. 2, no. 1–4, pp. 59–66, Dec. 2011, doi: 10.1007/s12567-011-0012-z.

[21] Y. Aslan, A. Roederer, N. J. G. Fonseca, P. Angeletti, and A. Yarovoy, “Orthogonal Versus Zero-Forced Beamforming in Multibeam Antenna Systems: Review and Challenges for Future Wireless Networks,” *IEEE Journal of Microwaves*, vol. 1, no. 4, pp. 879–901, Oct. 2021, doi: 10.1109/JMW.2021.3109244.

[22] W. A. Abu-Al-Saud, *Wireless & Mobile Communications*. Accessed: Feb. 04, 2025. [Online]. Available: https://faculty.kfupm.edu.sa/ee/wajih/files/EE%20499,%20Lecture%2003.pdf

[23] ITU, “Reference radiation pattern for earth station antennas in the fixed-satellite service for use in coordination and interference assessment in the frequency range from 2 to 31 GHz S Series Fixed-satellite service,” 2010. [Online]. Available: http://www.itu.int/ITU-R/go/patents/en

[24] A. K. Maini and V. Agrawal, *Satellite Technology Principles and Applications*. 2007.

[25] ITU, “CALCULATION OF PROBABILITY OF HARMFUL INTERFERENCE BETWEEN SPACE NETWORKS (C/I RATIOS).”

[26] “Maximum permissible levels of interference in a geostationary-satellite network in the fixed-satellite service using 8-bit PCM encoded telephony, caused by other networks of this service,” 1978.

[27] ITU, “CARRIER-TO-INTERFERENCE CALCULATIONS BETWEEN NETWORKS IN THE FIXED-SATELLITE SERVICE,” 1992.

[28] International Telecommunication Union Radiocommunication Sector, *World Radiocommunication Conference 2019 (WRC-19)*. 2019. [Online]. Available: www.itu.int

[29] ITU, “Procedure for determining if coordination is required between geostationary-satellite networks sharing the same frequency bands,” 1992.

[30] S. Al-Fedaghi, “A conceptual foundation for the Shannon-Weaver Model of communication,” *International Journal of Soft Computing*, vol. 7, no. 1, pp. 12–19, 2012, doi: 10.3923/ijscomp.2012.12.19.

[31] T. Pratt and J. Allnutt, “Satellite Communications Third Edition.”

[32] J. Conde, G. Martinez, P. Reviriego, and J. A. Hernandez, “Round Trip Times (RTTs): Comparing Terrestrial and LEO Satellite Networks,” in *Proceedings of the 27th Conference on Innovation in*

Clouds, Internet and Networks, ICIN 2024, Institute of Electrical and Electronics Engineers Inc., 2024, pp. 42–46. doi: 10.1109/ICIN60470.2024.10494421.

[33] ITU, “ARTICLE 9,” 2015.

[34] ITU, “ARTICLE 11.”