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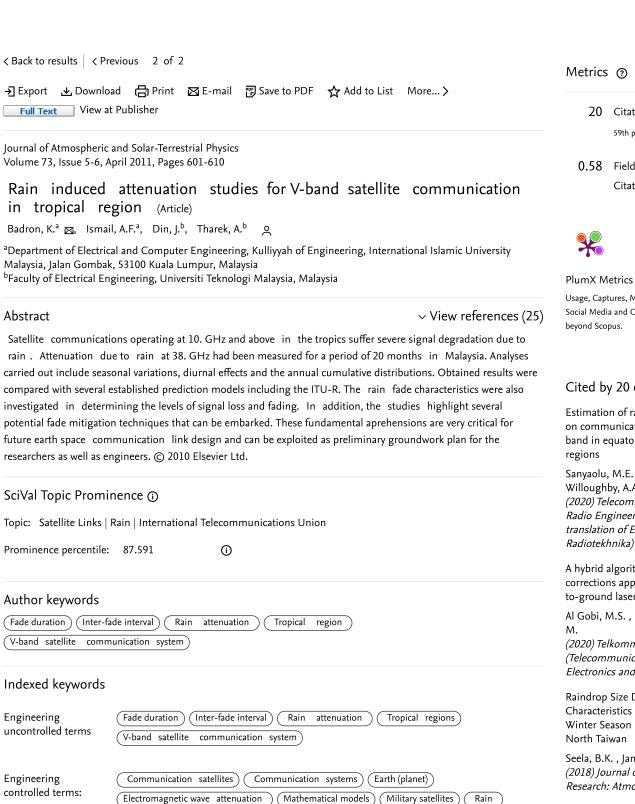
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□ 1	Abdullah, N.A., Adullah, R.S.A., Noordin, N.K. (2008) Adaptive coding and modulation for 38GHz rain fade countermeasure. In: Spectrum Research Colloquium 2008 Proceedings, Kuala Lumpur 18-19 December, ISBN 978-983-42563-2-6.				
_ 2	Ayama, C., Nguyen, T. (2005) Fade and interfade durations on earth-space links in temperate and tropical locations. In: International Union of Radio Science-URSI Proceeding GA06.				
3	Badron, K., Ismail, A.F. (2009) Constraint of high frequency military communications in tropical region. In: Proceedings of Asia Pacific Conferfence on Defence and Security Technology, no. 004, 6th-7th October, K. Lumpur.				
☐ 4	Badron, K., Ismail, A.F., Din, J., Tharek, A.R. (2009) Rain induced attenuation studies for V-band in tropical regions. In: Proceedings of Loughborough Antenna and Propagation Conference, 689-692, 16th-17th November 2009.				
5	Crane, R.K. Modelling attenuation by rain in tropical regions (1990) International Journal of Satellite Communications, 8 (3), pp. 197-210. Cited 17 times. doi: 10.1002/sat.4600080312 View at Publisher				
☐ 6	Fiebig, UC., Riva, C. Impact of seasonal and diurnal variations on satellite system design in V band				
	(2004) <i>IEEE Transactions on Antennas and Propagation</i> , 52 (4), pp. 923-932. Cited 22 times. doi: 10.1109/TAP.2004.825650				
	View at Publisher				
7	Fukuchi, H., Watson, P.A., Ismail, A.F. (2000) Proposed novel attenuation mitigation technologies for future millimetre wave satellite communications. In: Proceedings of IEE/EUREL International Conference on Antenna and Propagation, AP-2000.				

Related documents

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·		GarcíA-LÓPez, J.A., Hernando, J.M., Selga, J.M. Simple Rain Attenuation Prediction Method for Satellite Radio Links (1988) IEEE Transactions on Antennas and Propagation, 36 (3), pp. 444-448. Cited 45 times.
		doi: 10.1109/8.192129
		View at Publisher
	9	Ippolito, L.J. Satellite Communications Systems Engineering: Atmospheric Effects, Satellite Link Design and System Performance (2008) Satellite Communications Systems Engineering: Atmospheric Effects, Satellite Link Design and System Performance, pp. 1-376. Cited 156 times. http://onlinelibrary.wiley.com/book/10.1002/9780470754443 ISBN: 978-047075444-3; 978-047072527-6 doi: 10.1002/9780470754443 View at Publisher
	10	Ismail, A.F., Watson, P.A. Characteristics of fading and fade countermeasures on a satellite-Earth link operating in an equatorial climate, with reference to broadcast applications (2000) IEE Proceedings: Microwaves, Antennas and Propagation, 147 (5), pp. 369-373. Cited 49 times. doi: 10.1049/ip-map:20000704 View at Publisher
	11	(1990), pp. 581-2. ITU-Recommendations. The Concept of Worst Month. ITU, Geneva.
	12	(2007), pp. 618-9. ITU-R Recommendations Propagation data required for the design of Earth-space telecommunications system. ITU, Radio Communications Bureau, Geneva.
	13	(2001), pp. 679-3. ITU-Recommendations. Propagation data required for the design of broadcasting-satellite systems. ITU, Geneva.
	14	(2005), pp. 841-4. ITU-Recommendations. Conversion of annual statistics to worst-month statistics. ITU, Geneva.
	15	(2005), pp. 1623-1. ITU-Reccomendations. Prediction method of fade dynamics on Earth-space paths. ITU, Geneva.

16	Maki, M., Keenan, T.D., Sasaki, Y., Nakamura, K. Characteristics of the raindrop size distribution in tropical continental squall lines observed in Darwin, Australia (Open Access) (2001) Journal of Applied Meteorology, 40 (8), pp. 1393-1412. Cited 88 times. doi: 10.1175/1520-0450(2001)040<1393:COTRSD>2.0.CO;2 View at Publisher	
17	Ong, JT., Zhu, CN. Rain rate measurements by a rain gauge network in Singapore (1997) Electronics Letters, 33 (3), pp. 240-242. Cited 25 times. http://scitation.aip.org/dbt/dbt.jsp?KEY=ELLEAK doi: 10.1049/el:19970148 View at Publisher	
18	Omotosho, T.V., Oluwafemi, C.O. Impairment of radio wave signal by rainfall on fixed satellite service on earth-space path at 37 stations in Nigeria (2009) Journal of Atmospheric and Solar-Terrestrial Physics, 71 (8-9), pp. 830-840. Cited 30 times. doi: 10.1016/j.jastp.2009.03.016 View at Publisher	
19	Pan, Q.W., Allnutt, J.E. 12-GHz fade durations and intervals in the tropics (2004) IEEE Transactions on Antennas and Propagation, 52 (3), pp. 693-701. Cited 35 times. doi: 10.1109/TAP.2004.825483 View at Publisher	
20	Panagopoulus, A.D., Arapoglous, PD.M., Cotis, P.G. Satellite communications at Ku, Ka and V bands: propagation impairments and mitigation techniques (2004) <i>IEEE Communications Surveys and Tutorials</i> , 6 (3). Cited 362 times. Third Qaurter	
21	Pontes, M.S., Da Silva Mello, L., De Souza, R.S.L., Miranda, E.C.B. Review of rain attenuation studies in tropical and equatorial regions in Brazil (2005) 2005 Fifth International Conference on Information, Communications and Signal Processing, 2005, art. no. 1689223, pp. 1097-1101. Cited 16 times. ISBN: 0780392833; 978-078039283-0	
22	Thomas, L.D., Baltimore, M.D. (1977) Power control on satellite uplinks. United States Westinghouse Electric Corporation Pittsburgh, PA, 4038600. http://www.freepatentsonline.com/4038600.html	
23	Watson, P.A. (1997) Effect of rain on SHF/EHF terrestrial systems. Radio Propagation Prediction IDGS Lectures.	

<u> </u>	Watson, P.A., Ismail, A.F., Seng, P.K., Ja, Y.Y., Kamaruddin, H.S., Eastment, (1998), pp. 1.3-1.7. Investigation on rain fading and possible countermeasures on satellite-eart Proceedings URSI Commission F Symposium Wave Propagation and Remo	h links in tropical climates. In:			
<u> </u>	Zhen, Z.W., Zhang, M.G., Zhu, W.S. (2007), pp. 471-472. An analytic model of specific attenuation due to rain. In: Proceedings of Int Infrared and Millimeter Waves	ernational Conference on			
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