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Design and characterisation of a novel T-shaped nano-antenna on diamond like carbon material

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In this paper, the resonant frequency of a T-shaped nano-antenna was analysed and parametric study had been carried out to understand the effects on T-shaped antenna on diamond like carbon material. The novel T-shaped nano-antenna were designed and analysed by using momentum model in Advanced Design System (ADS) software and the simulations results were directly compared with other nano-antenna. Initial work indicated that the novel T-shaped nano-antenna had a smaller physical size and higher bandwidth when compared to the other nano-antenna at milli-metric wave frequencies.

Biography

Ahmad Bahar has completed his undergraduate in Applied Electrical Engineering in 2000 from King Fahad University of Petroleum and Minerals (KFUPM) in Saudi Arabia. He joined Emerging Technology Research Centre (EMTERC) at De Montfort University as a researcher in 2012. His research interests focus on Nano-antennas applications.

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