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6 Radiation models (cont.) 7.1 Beam width (or beam width at half power) 7.2 Measurement of antenna direction 7.3 There are many variations of solitaire that are usually played by an individual. Antennas and Key Propagation Points 2. 7 Antenna gain 7.2 Antenna gain 7.3 Output power, in a particular direction, compared to that produced in any direction by an isotropic antenna 7.4 Effective Area 7.5 Related to the physical size and shape of the antenna 8. 3 Basic Antenna Concepts 8.1 Reciprocity Radiation Models 8.2 Gain 8.3 Isotropic Radiator 4. 36 Types of Fading 4.1 Fading 4.2 Fading 4.3 Selective fading 4.4 This game and other variants of the solitaire are easily playable by all ages. 33 Fading in Mobile Environment 4.5 Fading 4.6 Time variation in the power of the received signal caused by changes in the transmission medium or path (s). 34 Multipath Propagation (MP) 4.7 Reflection 4.8 Occurs when the signal encounters a wide surface relative to the wavelength of the signal 4.9 Diffraction 4.10 Occurs at the edges of an impenetrable body that is large relative to the wavelength of the radio waves 4.11 Scattering captures when the input signal hits an object whose size is 35. 37 Scolorimento Source: Prakash Agrawal, D., Zeng, Q., Introduction to Wireless and Mobile Systems, Brooks/Cole-Thompson Learning, 2003. 14 Dipole Antenna Radiated power Azimuth 15. The popular solitaire card game has been around for years, and can be downloaded and played on personal computers. 13 Types of antennas 13.1 Isotropic Antenna 13.2 Radiates power in all directions 13.3 Omnidirectional 13.4 Dipole Antenna 13.5 Half-wave dipole antenna 13.6 Antenna 13.7 Vertical Antenna ecaciffe ecaciffe 13.8 eA 13.9 annetna ongadaug 13.10 G 13.11 Aolopid a annetna 13.12 13.13 avitteffe aera e annetna'lled ongadaug art enoizaleR 13.14 13.15 tnoc niaG annetna 8. 41 annetna 13.16 adno'd langis = tP 13.17 13.18 URE URE ANTNA CIPORTOSI LAEDI 13.19 Ssol ecaps eerF 13.20 13.21 apS eerF 42 .syalp ruoy htiv pu peek ot uoy rof serocs dna ssergorp eht erots smargorp emoS .13 noc.gnitsetbac.www/.pith shtap langis neewteb gnilpuoc detnawntU 13.22 13.23 tiw slangis fi srucC 13.24 13.25 rettap noitpeceR 13.26 13.27 notcarfer yb desuac tceffe noitcelfer 13.28 13.29 ecafur sA 13.30 ETO dna erehpsonoi newteb htrof dna kcab .spoh fo rebmun a levart nac langiS 13.31 13.32 Zådure htrae ot 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More information from Questionswered.net 1. 28 Thermal noise is A quantities of thermal noise to be found in a a of 1Hz in any device or conductor is: 15.04 15.05 NO = noise power density in watts per 1 Hz of bandwidth 15.06 15.07 k = Boltzmann's constant = 1.3803 A 10-23 J/o K 15.08 15.09 T = temperature, in kelvins (absolute temperature) (Jw/Hzk0 TN = 29. 32 Other Impairments 15.10 15.11 Atmospheric absorption 15.12 15.13 Water vapor and oxygen contribute to attenuation 15.14 15.15 Multipath 15.16 15.17 Obstacles reflect signals so that multiple copies with varying delays are received 15.18 15.19 Refraction 15.20 15.21 Bending of radio waves as they propagate through the atmosphere 33. 29 Thermal Noise 15.22 15.23 Noise is assumed to be independent of frequency 15.24 15.25 Thermal noise present in a bandwidth of B Hertz (in watts): 15.26 15.27 or, in decibel-watts TBN k= BTN log10log10klog10 += = BT log10log10dBW6.228 +=+cAA= 30. Pyramid is a fun and entertaining card game, and a great way to pass the time.TripeaksIn the game of Tripeaks, cards are selected in a sequence going up or down to accumulate points. 31 Noise Terminology 15.28 15.29 Impulse noise 15.30 15.31 Irregular pulses or noise spikes 15.32 15.33 Short duration and of relatively high amplitude 15.34 15.35 Caused by external electromagnetic disturbances, or faults and flaws in the communications system 32. Play continues with the remaining cards, and the goal of reaching 13 each time in order to continue. 16 Ground Wave Propagation 15.36 15.37 Follows contour of the earth 15.38 15.39 Can propagate considerable distances 15.40 15.41 Frequencies up to 2 MHz 15.42 15.43 Example 15.44 15.45 AM radio 17. iteAAAs part of the Microsoft software collection, and is one of the free solitaire games for PCs. The game is played using eight columns of cards lined in a row on the computer screen. 12 Polarization 13. 13.

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