
Radar Companion

fmcw radar implemented with gnu radio companion - fmcw radar can be implemented and configured with a reduced cost and complexity. in this report, the radar is implemented by means of the software gnu radio companion with a test signal. hackrf may be used in future work with an osmocom source instead of the test signal. keywords : fmcw radar, software defined radio, gnu radio companion 3 **using gnu radio companion: tutorial 1** - using gnu radio companion: tutorial 1 gnu radio companion (grc) is a graphical user interface that allows you to build gnu radio flow graphs. it is an excellent way to learn the basics of gnu radio. this is the first in a series of tutorials that will introduce you to the use of grc. 1. **simultaneous radar and communication emissions from a ...** - the radar waveform is an up-chirped lfm with a bandwidth of 10 mhz and pulsewidth of 10 μ s for a time-bandwidth product of 100. the communications beam is set to have 13db less power than the radar beam as the communication link is assumed to be secondary to the radar mission and would only have to contend with one-way path losses in practice. **manportable surveillance and target acquisition radar ...** - the manportable surveillance and target acquisition radar (mstar v6) is a versatile, high-performance ground surveillance radar that is the latest addition to the highly successful mstar gsr series. it is specifically designed to meet the demanding needs of integrated surveillance systems applications where mission **a gnu radio based software-defined radar** - abstract patton, lee. m.s.e., department of electrical engineering, wright state university, 2007. a gnu radio based software-defined radar. gnu radio is an open source software-defined radio project, and the universal software **national weather service quad cities ia/il weather home ...** - nado to impact the national weather service quad cities service area in the era of the doppler radar. the village of raritan in eastern henderson county suffered the brunt of mother nature's fury that day, but several other towns also suffered damage from niota to dallas city, lomax, disco, terre haute and roseville. the weather map on the morn- **experience guide - ccftpeative** - step up your game with the world's first smart gaming companion that enables you to visualize and pinpoint your enemy's position in fps games via a dedicated scout radar display on your mobile device. coupled with scout mode that lets you hear your enemies before you see them, the all-new scout 2.0 is **gnu radio radar toolbox - wordpress** - gnu radio radar toolbox stefan Wunsch j september 14, 2014 kit - university of the state of baden-wuerttemberg and national laboratory of the helmholtz association kit. the free & open software radio ecosystem stefan Wunsch - gnu radio radar toolbox september 14, 2014 2/11. **10. passive microwave sensing - cee cornell** - 10. passive microwave sensing 10.1 concepts of microwave radiometry a microwave radiometer is a passive sensor that simply measures electromagnetic energy radiated towards it from some target or area. as a passive sensor, it is related more to the classical optical and ir sensors than to radar, its companion active microwave sensor. **gnu radio tutorials - ettus** - gnu radio tutorials labs 1 - 5 balint seeber ettus research version 1.0 (18th april 2014) comments & suggestions welcome: balint@ettus @spenchnet **using gnu radio for signal phase measurements** - radio is the "companion" feature; this allows the user to create a "flow graph" of the circuit they are building. figure 2 shows the flow graph of the phase circuit for this project. the end product can prove to be somewhat overwhelming for the beginner and this documents attempts to break the circuit up and explain what **asphalt pavement compaction assessment using ground ...** - asphalt pavement compaction assessment using ground penetrating radar-arrays kyle hoegh1 shongtao dai2 and lev khazanovich3 1minnesota department of transportation, materials and road research, ... scatter shown from figure 1 referenced from nchrp 531 and the current companion core bulk **a low-cost small satellite space radar system** - greater detail in a companion paper!, makes such a system realizable. the radar system concept which is presented here is one which is highly suitable for limited-area surveillance, and one which illustrates the unusual capability of the unique flapstm technology; i.e., the ability to construct a highly capable space radar

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