

(COS dSING,) from behrl. Concert from decimed to Fixed Point P. O. P. P. O. . . . P. O. basis Sunctions and they write be stoned in the VHDL Code, Alded to The real and inas Gunthon become So they can be operated on. HX46 REAL We have

from ead H and Q Values base on neasoned dute The hardware provides of le phase centera

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しまが H 16 02 -7 H REAL This Senerate

from the hardware data. These are real and Imas "data"

H H H

Old Notege velves that

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inage part of

measured return

from scene

FIGUR

Diled .

where we calculate the image energy at A. Next look at case for one grole a

(R,O,)-J(I,O,) x (I,A)+J(Q,d) > Sun Teal parts, イスナナナラー AI - Will explain who this is resative later

Basis Function

This is agg of enera y

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with all 6's using the same datal thouse response. and calculate real part and imas part /seperately Simplify Using (a-jb) (c+jd) = ac + 6d +j(-bc +ad) Repect this colouletion 16 times

(R1,01) (I,0) + (I,0,0,1) + (R10,01) - (I,0, I,d)

Suggested tasks to severete simulation:

- Build 16 basis functions in EXCEL (116) Should plat as 16 liver with different slaper
- (CONJECT there to REAL and IMAG parts (2/6) This will yield 32 furctions, IGR, IGI that should sreph as sinusoids
- Set up the data further I and Q (+/6) Since there is no deter the would make these look like one of toxis functions at a porticular B.
- to the Complex multiply (5/6) corresponding to one of to engles. and senerate 16 amplitudes each
- Plot the 16 contitudes versus the 16 0's