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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 64 pages. Original publisher: Aberdeen Proving Ground. , MD : Army Research Laboratory, 2010 OCLC Number: (OCoLC)649827726 Subject: Synthetic aperture radar. Excerpt: . . . formation algorithms for a similar imaging geometry and show that carefully applying either algorithm produces similar results. There are three SAR configurations that we employ in our numerical examples. One of them considers the spotlight mode and implements the PFA for image formation. In this case the radar is placed in the far-field and moves on a circular path ( the distance to the center of the room is constant ). In the models, we compute the targets response at various azimuth aspect angles using plane wave excitation ( that is, infinitely narrow antenna beamwidth ). In the following, we call the angular range the imaging aperture. In order to achieve downrange resolution, the target response is also computed frequency by frequency over a large bandwidth. In this respect, our simulations mimic the operation of a stepped frequency radar. The fields computed at the receiver do not include the  $1/R$  term ( characteristic for the spherical spread in the far-field 19 ); therefore, the images are independent of the standoff distance between radar and target. We should mention that this far-field geometry is ideal in conjunction with the PFA since it automatically eliminates one major source of errors, namely, the range curvature effect ( 11, 12 ). Nevertheless, this feature is made possible by the fact that plane wave excitation and observation can be rigorously implemented in our radar signature computer codes. In the physical world, the wavefront curvature is always present and produces phase errors within the PFA that need to be corrected ( linear errors ) or kept under control...



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