



## Remote Sensing of Vegetation by Polarimetric Space Interferometers

By Marco Lavallo

LAP Lambert Academic Publishing Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x13 mm. This item is printed on demand - Print on Demand Neuware - Over the last few years satellite remote sensing has become a standard tool for monitoring the properties and the evolution of vegetation on Earth. This book addresses primarily the role that polarimetric and interferometric radars play in forest remote sensing. The first two chapters introduce the basics of synthetic aperture radars and microwave scattering modeling. Chapter three treats the topic of polarimetric interferometry and presents a physical model of decorrelation that occurs in forest canopies observed by a repeat-pass radar interferometer. Chapter four deals with the topic of compact polarimetric-interferometry and examines the performance of this new imaging mode in contrast to full polarimetric interferometry. Finally, chapter five discusses the quality of polarimetric radar data and the algorithms for radiometric calibration and Faraday rotation estimation. The emphasis of the book is on the modeling aspects and the design of new algorithms. The book should be especially useful to radar engineers and ecosystem scientists who consider using polarimetric and interferometric techniques for the remote sensing of the terrestrial environment. 220 pp. Englisch.



**READ ONLINE**  
[ 2.18 MB ]

### Reviews

*This publication can be really worth a go through, and a lot better than other. It is actually written in straightforward words and phrases instead of confusing. I discovered this pdf from my dad and I suggested this publication to learn.*

-- **Jackeline Rippin**

*A high quality book and also the font employed was intriguing to read. I was able to comprehend every thing out of this created e book. You won't really feel monotony at whenever you want of the time (that's what catalogues are for concerning should you check with me).*

-- **Prof. Johnson Cole Sr.**