

Effects of Shadowing Types on Ground-Measured Visible and Near-Infrared Shadow Reflectances

Brigitte Leblon,^{*} Lisa Gallant,^{*†} and Hardy Granberg[†]

We analyzed the effect on the visible and near-infrared reflectance of shadows cast by a building, a conifer, and a hardwood on three different surfaces (grass, bare soil, and asphalt). Ground-measured radiances were collected with a radiometer measuring the SPOT-NIRV bands and with a spectroradiometer measuring in the SPOT-NIRV and LANDSAT-TM bands as well as giving the whole spectrum from 400 nm to 900 nm. We considered two types of reflectances: the "sunlit reflectance" and the "shadow reflectance," which is calculated, using as irradiance, the radiance of the sunlit reference panel and of the shadowed reference panel, respectively. An analysis of variance showed that visible and near-infrared reflectances of shadows are significantly affected by the surface type and the shadow type. *F*-test values are higher for sunlit reflectances than for shadow reflectances as well as for near-infrared reflectances than for visible reflectances. Reflectances of hardwood shadows are generally higher and more variable than the ones of conifer shadows. Building shadows generally have lower reflectances than hardwood shadows and similar reflectances as conifer shadows. These reflectances were used to calculate two vegetation indices (NDVI and ARVI). They are also affected by the surface and shadow types. Whatever the object casting the shadows, spectra measured in the shadow are typical of the surface type (grass, bare soil, or asphalt). Further studies are needed on multiple shadows and penumbra effects, which are particularly important in the case of forest canopies. © Elsevier Science Inc., 1996

INTRODUCTION

The total reflectance of a vegetated surface is the sum of the reflectance of sunlit and shadowed vegetation and sunlit and shadowed soil, respectively. Several reflectance models explicitly take into account shadowing effects, such as the geometric models of Cavayas and Teillet (1985), Otterman and Staenz (1985), Li and Strahler (1986), and Hanan et al. (1993), the stochastic model of Rosema et al. (1992), and the stochastic-geometrical model of Jasinski and Eagleson (1989). Shadowing effects are especially important in the case of sparse vegetation canopies (Graetz and Gentle, 1982; Ranson and Daughtry, 1987; Franklin et al., 1991; Hanan et al., 1993), in the case of low sun elevations, for example, in winter or at high latitudes, or in the case of large satellite view angles (Franklin et al., 1991) and explain why the minimum values of reflectance occur at intermediate stand cover rates (Rosema et al., 1992). Since plant canopies are not lambertian surfaces, shadowing due to surface roughness causes a variation in the empirical relationships between reflectance and biological parameters like height and cover rates as well as in the angular effects on plant canopy reflectances, which are dependent on plant growth or development stages. Models to predict the spatial distribution of shadows have been developed by, for example, Kusilva and Pukkala (1987) and Granberg (1988). Shadow effects have also been modeled by means of scale models, by Dickinson (1972) for albedo estimation and by Soffer and Miller (1995), to study reflectance properties of a jack pine forest.

Plant canopies absorb mainly blue and red radiations, by leaf photosynthetic pigments as well as short-wave infrared radiations, by leaf water. Most of the reflected and transmitted radiation is in the near-infrared band (Federer and Tanner, 1966). In this band, shadowing effects in a plant canopy are less important

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Received 2 September 1995; revised 16 April 1996.

Shadowing The Ground

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Table of Contents Shadowing The Ground

1. Understanding the eBook Shadowing The Ground
 - The Rise of Digital Reading Shadowing The Ground
 - Advantages of eBooks Over Traditional Books
2. Identifying Shadowing The Ground
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Shadowing The Ground
 - User-Friendly Interface
4. Exploring eBook Recommendations from Shadowing The Ground
 - Personalized Recommendations
 - Shadowing The Ground User Reviews and Ratings
 - Shadowing The Ground and Bestseller Lists
5. Accessing Shadowing The Ground Free and Paid eBooks

- Shadowing The Ground Public Domain eBooks
 - Shadowing The Ground eBook Subscription Services
 - Shadowing The Ground Budget-Friendly Options
6. Navigating Shadowing The Ground eBook Formats
 - ePub, PDF, MOBI, and More
 - Shadowing The Ground Compatibility with Devices
 - Shadowing The Ground Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Shadowing The Ground
 - Highlighting and Note-Taking Shadowing The Ground
 - Interactive Elements Shadowing The Ground
 8. Staying Engaged with Shadowing The Ground
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Shadowing The Ground
 9. Balancing eBooks and Physical Books Shadowing The Ground
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Shadowing The Ground
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Shadowing The Ground
 - Setting Reading Goals Shadowing The Ground
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Shadowing The Ground
 - Fact-Checking eBook Content of Shadowing The Ground
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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