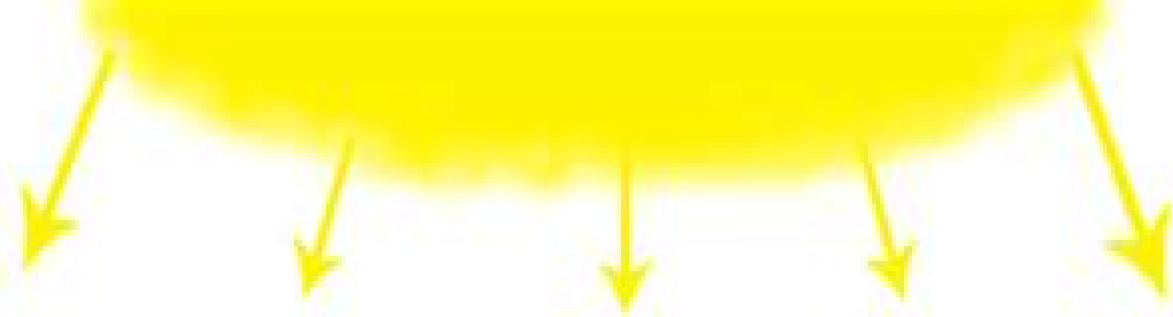
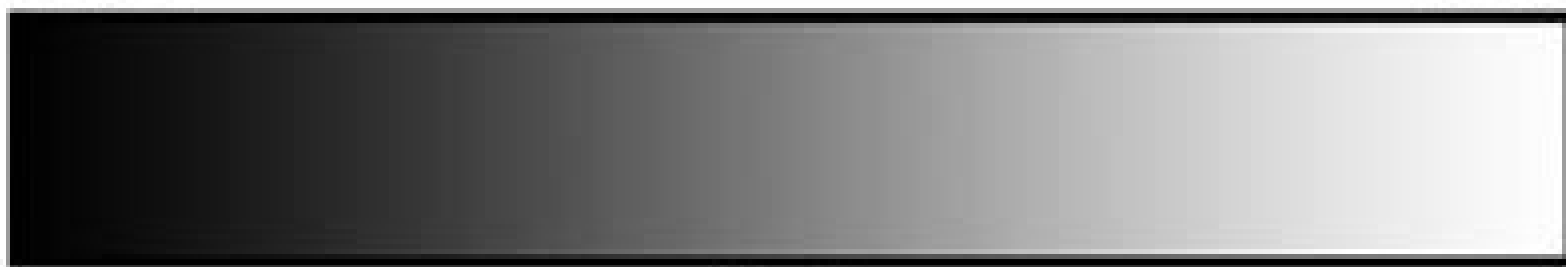




Absorbs

Reflects



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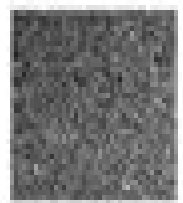
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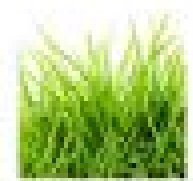
0% Reflected

50% Reflected

100% Reflected



asphalt (0.10)



grass (0.25)



white paint (0.80)

Albedo

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Acpa

Christopher Lawrence Brest



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Temperature Development in Early Age Concrete Elements Yunus Ballim, 2025-09-23 The focus of this book is to provide guidance on the prediction of time temperature profiles in large concrete elements during the early stages of construction with a view to minimising the likely damage that may occur to the concrete as a result of elevated temperatures caused by the heat of hydration of the cementitious materials Early age elevated temperatures in concrete elements create the potential for cracking of the structure as well as compromising the strength and durability of the concrete The book provides details on the characteristics of cementitious materials and their effects on the rate of heat evolution as well as the effects of elevated curing temperatures on the physical mechanical and durability properties of concrete The book also considers the effectiveness of materials selection and construction methodologies for early age concrete temperature management and control Several case studies are presented to illustrate the important aspects in the design and construction of temperature sensitive concrete structures This book is primarily aimed at practicing design and construction engineers who are concerned with thermal effects and stresses in large concrete elements It is also aimed at researchers and postgraduate students who may consider aspects of this wonderfully complex matter of heat transfer and temperature prediction in large concrete structures as sufficiently interesting to warrant further research and investigation

Regenerating Essential Goods and Services in Urban Landscapes Douglas Kent, 2024-04-15 How do we provide for and nurture millions of people without destroying the planet in the process Author Doug Kent an environmental specialist believes a vital element in the solution is recognizing that urban landscapes are an essential partner in everyone's wellbeing He argues that urban landscapes can and must work harder Urban landscapes can provide part of our energy needs help cool our buildings and public spaces help us make the most of our precious water They can also help combat air pollution and reduce the likelihood of allergies and asthma They can provide landscape materials and even contribute to our timber supply Doug also advocates turning landscapes into a food source and or a perfumery pharmacy soap shop or craft store Doug has over 12 years of research in this book He has spent years doing literature reviews and many more years concocting consuming crafting distilling propagating retting sawing sowing and weaving its many recommendations He has also travelled the length and width of California many times to interview the people and businesses already doing this incredible work Regenerating Essential Goods and Services is not a manifesto It is a user's manual You are the creative and energetic force that will ultimately drive sustainability and regeneration Let's go

Tracking Daily Land Surface Albedo and Reflectance Anisotropy with Moderate-Resolution Imaging Spectroradiometer (MODIS) Yanmin Shuai, 2010 Abstract A new algorithm provides daily values of land surface albedo and angular reflectance at a 500 m spatial resolution using data from the Moderate Resolution Imaging Spectroradiometer MODIS instruments currently in orbit on NASA's Terra and Aqua satellite platforms To overcome the day to day variance in observed surface reflectance induced by differences in view and

solar illumination angles the algorithm uses the RossThickLiSparse Reciprocal bidirectional reflectance model which is fitted to all MODIS observations of a 500 m resolution cell acquired during a 16 day moving window Individual observations are weighted by their quality observation coverage and proximity to the production date of interest Product quality is measured by 1 the root mean square error RMSE of observations against the best model fit and 2 the ability of the angular sampling pattern of the observations at hand to determine reflectance model parameters accurately A regional analysis of model fits to data from selected MODIS data tiles establishes the bounds of these quality measures for application in the daily algorithm The algorithm which is now available to users of direct broadcast satellite data from MODIS allows daily monitoring of rapid surface radiation and land surface change phenomena such as crop development and forest foliage cycles In two demonstrations the daily algorithm captured rapid change in plant phenology The growth phases of a winter wheat crop as monitored at the Yucheng agricultural research station in Yucheng China matched MODIS daily multispectral reflectance data very well especially during the flowering and heading stages The daily algorithm also captured the daily change in autumn leaf color in New England documenting the ability of the algorithm to work well over large regions with varying degrees of cloud cover and atmospheric conditions Daily surface albedos measured using ground based instruments on towers at the agricultural and forest locations also compared very favorably with the MODIS albedo measures derived with the new daily algorithm achieving RMSE values of less than 0.03 units

Seasonal Reflectance and Spatial Distribution of Surface Reflectance and Albedo Christopher Lawrence Brest, 1983 *Spectral Reflectance and Albedo Measurements of the Earth from High Altitudes* H. E. Band, 1965 **Seasonal Variation and Spatial Distribution of Surface Reflectance and Albedo** Christopher Lawrence Brest, 1983 Use of AVHRR-derived Spectral Reflectances to Estimate Surface Albedo Across the Southern Great Plains Cloud and Radiation Testbed (CART) Site, 1997 Substantial variations in surface albedo across a large area cause difficulty in estimating regional net solar radiation and atmospheric absorption of shortwave radiation when only ground point measurements of surface albedo are used to represent the whole area Information on spatial variations and site wide averages of surface albedo which vary with the underlying surface type and conditions and the solar zenith angle is important for studies of clouds and atmospheric radiation over a large surface area In this study a bidirectional reflectance model was used to inversely retrieve surface properties such as leaf area index and then the bidirectional reflectance distribution was calculated by using the same radiation model The albedo was calculated by converting the narrowband reflectance to broadband reflectance and then integrating over the upper hemisphere

Effect of Color and Texture on the Surface Temperature of Asphalt Concrete Pavements Richard L. Berg, 1985 From April 1982 through October 1983 surface temperatures were measured on seven asphalt concrete pavement test sections in Fairbanks The seven test sections included an untreated asphalt concrete pavement white painted pavement yellow painted pavement white marble C chips B chips dark grey C chips and dark grey E chips Air temperatures were also measured

throughout the experiment Incident and reflected shortwave radiation incoming and emitted longwave radiation wind speed wind direction and surface albedo observations with a hand held radiometer were measured during the 1982 summer Each of the test sections was approximately 16 ft wide by 50 ft long

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l when the half reactions listed above are combined into a balanced chemical equation the ratio of the coefficients cu s mno a
4 a a q is

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