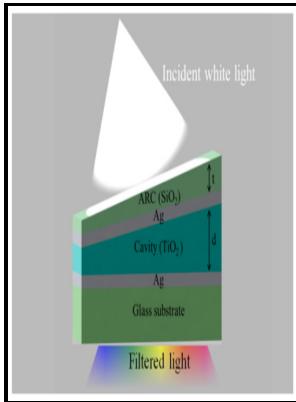


# Omnidirectional optical filters

Kluwer Academic Publishers - ShieldSquare



Description: -

- Digital filters (Mathematics)
- Optical communications. Omnidirectional optical filters
- Omnidirectional optical filters
- Notes: Includes bibliographical references (p. [247]-249) and index.
- This edition was published in 2003



Filesize: 42.35 MB

Tags: #Omnidirectional #Optical #Filters

## Omnidirectional linear and nonlinear filters based on plasmonic materials

Therefore, the total absorption caused by SiO<sub>x</sub> films can be restrained and be kept at an acceptable level. Macroporous Silicon-Based Short-Pass Filter Design. The different colored lines represents different incidence angle from 0° to 60°.

## Omnidirectional color filters capitalizing on a nano

Design of reflective color filters with high angular tolerance by particle swarm optimization method.

## Short Pass Deep UV Omnidirectional Optical Filter With Ultra Wide Blocking Range

In the nonlinear regime - based on free-electron Au nonlinearity and tested with ns-long pulses at 532 nm - the metamaterial limits the output peak fluence, keeping it constant across several order of magnitudes of the incoming fluence. Effect of oxygen flow rate on the properties of SiO<sub>x</sub> films deposited by reactive magnetron sputtering.

## Omnidirectional Optical Filters

Limited to the material condition of the metal and the dielectric, only isolated samples with specific colors were demonstrated,. Not only does the book give the reader a fresh look at the development of optical filter material; it is the first text dedicated to the explanation of omnidirectional optical filters.

## Angle Insensitive Color Filters in Transmission Covering the Visible Region

If Equation and are satisfied, the aggregate reflection phase shift at the metal-spacer interfaces almost exactly cancels the phase shift due to the propagation of the wave in the direction perpendicular to the interfaces in the spacer region and the total phase shift reaches approximately  $2\pi$  for all incident angles,. For the first time, omnidirectional short-pass, band pass, band-blocking and narrow band-pass filter designs are explained in detail. It is worth mentioning that the thickness of the Ag layer carries a huge impact on the optical properties of the proposed filters, which influences not only the peak transmittance of the filters, but also the angle insensitive characteristics and the resonant wavelengths.

## **Engineered omnidirectional external**

All authors discussed the results and contributed to the article. Synopsis Optical Filters play an important role in the areas of imaging, sensing, MEMS and photonics.

### **Omnidirectional Optical Filters**

The angle resolved spectral filtering for p-polarization light is as well as that for s-polarization, which can be attributed to different physical origins for two polarizations. For graduate and undergraduate students interested in optics, photonics and MEMS, this book will give a thorough understanding of the design, fabrication and theory behind omnidirectional optical filters. SPIE 11537, Electro-Optical and Infrared Systems: Technology and Applications XVII, 115370I 20 September 2020 ;.

### **ShieldSquare**

According to the resonance condition of material, the intersections of the SiO x index and the Ag extinction coefficient indicates the resonance case. Furthermore, gold can be adopted in such structure for the infrared region.

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