



Optical and Thermo-optical Properties of Polyimide-Single-Walled Carbon Nanotube Films: Experimental Results and Empirical Equations

NASA Technical Reports Server (NTRS), et al., Joseph G. Smith



[DOWNLOAD PDF](#)

Optical and Thermo-Optical Properties of Polyimide-Single-Walled Carbon Nanotube Films: Experimental Results and Empirical Equations

By Joseph G. Smith

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The incorporation of single-walled carbon nanotubes (SWNTs) into the bulk of space environmentally durable polymers at loading levels greater than or equal to 0.05 wt has afforded thin films with surface and volume resistivities sufficient for electrostatic charge mitigation. However, the optical transparency at 500 nm decreased and the thermo-optical properties (solar absorptivity and thermal emissivity) increased with increased SWNT loading. These properties were also dependent on film thickness. The absorbance characteristics of the films as a function of SWNT loading and film thickness were measured and determined to follow the classical Beer-Lambert law. Based on these results, an empirical relationship was derived and molar absorptivities determined for both the SWNTs and polymer matrix to provide a predictive approximation of these properties. The molar absorptivity determined for SWNTs dispersed in the polymer was comparable to reported solution determined values for HiPco SWNTs. This item ships from La Vergne, TN. Paperback.



[READ ONLINE](#)

[6.07 MB]

Reviews

Very useful to all group of folks. This really is for all who state there was not a worthy of reading. I am very happy to explain how this is the best pdf i have study inside my personal life and can be the greatest book for actually.

-- Marcelle Homenick

I just started out reading this pdf. It is full of wisdom and knowledge You are going to like just how the blogger publish this publication.

-- Lily Gorczany

Other PDFs



Slave Girl - Return to Hell, Ordinary British Girls are Being Sold into Sex Slavery; I Escaped, But Now I'm Going Back to Help Free Them. This is My True Story.

John Blake Publishing Ltd, 2013. Paperback. Book Condition: New. Brand new book. DAILY dispatch from our warehouse in Sussex, all international orders sent Airmail. We're happy to offer significant POSTAGE DISCOUNTS for MULTIPLE ITEM orders.



The Whale Who Won Hearts!: And More True Stories of Adventures with Animals

National Geographic Kids, United Kingdom, 2014. Paperback. Book Condition: New. 190 x 130 mm. Language: English . Brand New Book. National Geographic Kids Chapters picks up where the best-selling National Geographic Readers series leaves off. This new series offers young animal lovers...



Diary of a Potion Maker (Book 2): Jail Break (an Unofficial Minecraft Book for Kids Ages 9 - 12 (Preteen)

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. GENRE: Childrens Adventure (An Unofficial Minecraft Book for Kids Ages 9 - 12 (Preteen) Verita is back in her second diary....



Diary of a Potion Maker (Book 1): The Potion Expert (an Unofficial Minecraft Book for Kids Ages 9 - 12 (Preteen)

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.GENRE: Childrens Adventure (An Unofficial Minecraft Book for Kids Ages 9 - 12 (Preteen) All witches must...



Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...