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Infrared Spectroscopy In Conservation Science

Description. This book provides practical information on the use of infrared (IR) spectroscopy for the analysis of materials found in cultural objects. Designed for scientists and students in the fields of archaeology, art conservation, microscopy, forensics, chemistry, and optics, the book discusses techniques for examining the microscopic amounts of complex, aged components in objects such as paintings, sculptures, and archaeological fragments.

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Infrared Spectroscopy in Conservation Science:

Infrared Spectroscopy in Conservation Science (Tools for Conservation) 1st Edition by Michele Derrick (Author), Dusan Stulik (Author), James M. Landry (Author) & 0 more ISBN-13: 978-0892364695

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Infrared Spectroscopy in Conservation Science. This book provides practical information on the use of infrared spectroscopy for the analysis of materials found in cultural objects. Designed for scientists and students in the fields of archaeology, art conservation, microscopy, forensics, chemistry, and optics, the book discusses techniques for examining the microscopic amounts of complex, aged components in objects such as paintings, sculptures, and archaeological fragments.

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... is infrared (IR) spectroscopy. It is extremely cost-effective, and it has directly contributed to the current enhanced interest in organic materials in art and archaeology. Recent years have witnessed the development of a robust network of IR users, who share spectra and insights on a regular basis.

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Infrared Spectroscopy in Conservation Science (Tools for Conservation) By Michele Derrick, Dusan Stulik, James M. Landry. 2000 | 252 Pages | ISBN: 0892364696 | PDF | 7 MB. This book provides practical information on the use of infrared spectroscopy for the analysis of materials found in cultural objects. Designed for scientists and students in the fields of archaeology, art conservation, microscopy, forensics, chemistry, and optics, the book discusses techniques for examining the microscopic ...

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Infrared Spectroscopy in Conservation Science - Michele R ...

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The surface-sensitive Attenuated Total Reflection Fourier Transform infra-red spectroscopy, ATR-FTIR is widely used in conservation. It has been used to characterise almost every material used in cultural heritage and its conservation [4 , 5 , 6] with many examples in the presentations of the thirteen Infra-red and Raman User Group conferences.

FTIR surface analysis for conservation | Heritage Science

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ATR-IR spectroscopy is used in various studies on adsorption of ligands on nanomaterials including kinetic data. 63 The orientation of siloxane monolayers on silicon was found to be disordered with nearly isotropic orientation. 64 ATR-IR spectroscopy can only be conducted with thin metal films deposited on an IR-transparent material.

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Mid-Infrared Spectroscopy - an overview | ScienceDirect Topics

Infrared spectroscopy (IR spectroscopy or vibrational spectroscopy) is the measurement of the interaction of infrared radiation with matter by absorption, emission, or reflection. It is used to study and identify chemical substances or functional groups in solid, liquid, or gaseous forms. The method or technique of infrared spectroscopy is conducted with an instrument called an infrared ...

Infrared spectroscopy - Wikipedia

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Infrared spectroscopy is based on molecular vibrations caused by the oscillation of molecular dipoles. Bonds have characteristic vibrations depending on the atoms in the bond, the number of bonds and the orientation of those bonds with respect to the rest of the molecule.

4.2: IR Spectroscopy - Chemistry LibreTexts

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Near-Infrared Spectroscopy NIRS is widely used in industry and science. For example, in the dairy industry, NIRS is used to determine the butterfat content of milk. In others, such as agriculture and pharmaceuticals, it is used as an efficient, accurate, and non-destructive way to measure product quality.

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