



Atlas of Plastics Additives

By Hummel, Dietrich O.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Analysis by Spectrometric Methods | A must for experts in industry, this book describes the application of vibrational (FTIR, UV, Raman) and mass spectrometries and other instrumental techniques for identification and structure elucidation of plastics additives. Numerous tables and figures compress the state of the art. | A Theory und Practical Applications.- 1 Introduction.- 2 Extraction, Solution Precipitation and Separation of Additives.- 2.1 Extraction.- 2.2 Solution Precipitation.- 2.3 Separation of Additive Mixtures into Components.- 3 Infrared Spectrometry.- 3.1 Fundamentals.- 3.2 Sample Preparation and Measurement.- 3.3 Conventional and Computer-Supported Interpretation of IR Spectra.- 3.4 Some Aspects of FTIR Spectrometry.- 3.4.1 Storage of Spectra in the Computer.- 3.4.2 The Search for Similarity and Equality ("Identity").- 3.5 Recent Work in IR Spectrometry of Additives.- 3.5.1 Additives with Preventive or Curative Properties.- 3.5.1.1 Empirical IR Band Assignments.- 3.5.1.2 Separation of Additives and Identification by (FT)IR Spectrometry.- 3.5.1.3 Solubility of Stabilisers and Antioxidants in Polymers.- 3.5.1.4 ATR Investigation of Rubber Surfaces.- 3.5.1.5 Quantitative IRS Analysis of Additives.- 3.5.2 Pigments and Fillers.- 3.5.2.1 Organic Pigments.- 3.5.2.2 Inorganic Pigments and Fillers.- 3.5.2.3 Pigments and Other Components in Fine Art and Historical Objects.- 3.5.3 Plasticisers.- 4 Raman Spectrometry.- 4.1 Fundamentals.- 4.2...



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