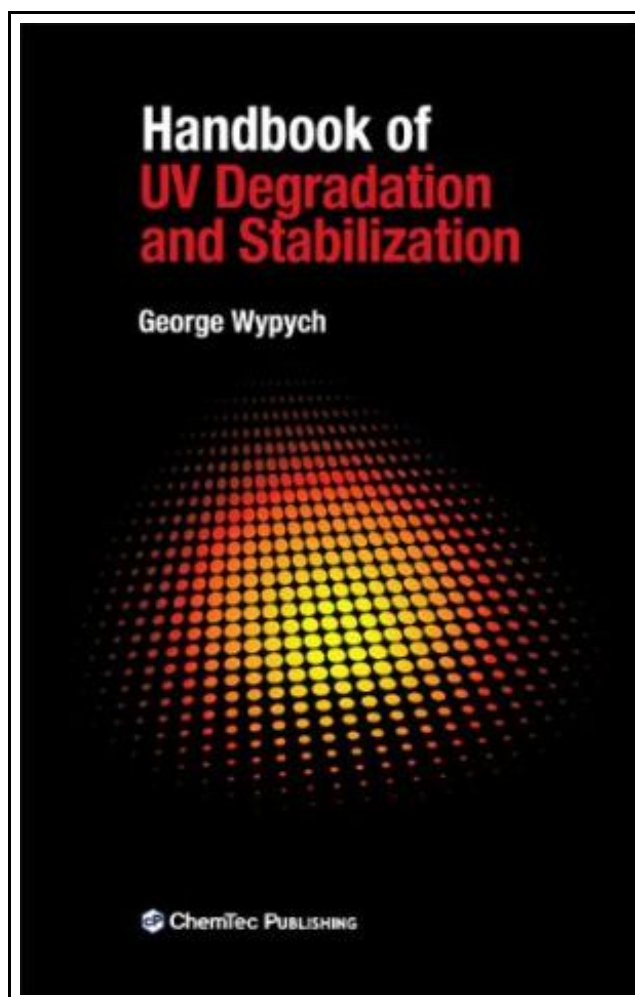


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Chem Tec Publishing, Canada, Canada, 2011. Hardback. Book Condition: New. 236 x 157 mm. Language: English . Brand New Book. This book, the first monograph fully devoted to UV degradation and stabilization ever published in English language, has 12 chapters, each discussing different aspect of UV related phenomena. In the introduction the existing literature has been reviewed to find out how plants, animals and humans protect themselves against UV radiation, and which lessons were already applied to the protection of man-made materials and final products, and which mechanisms work in living things but are not in the use of technical products. Photophysics is discussed in the second chapter to build understanding of physical phenomena occurring in materials when they are exposed to UV radiation. Potentially useful stabilization methods become obvious from the analysis of photophysics of the process but these effects are also combined with photochemical properties of stabilizers and their mechanisms of stabilization, and this subject is discussed in Chapter 3. Chapter 4 contains information on available UV stabilizers. It contains a set of data prepared according to a systematic outline as listed in the Table of Contents. Stability of UV stabilizers, important for predicting lifetime of their protection is discussed in Chapter 5. Different reasons of instability are included in evaluation. Principles of stabilizer selection are given in Chapter 6. Ten areas of influence of stabilizer properties and expectations from the final products were selected for discussion in this chapter. Chapters 7 and 8 give specific information on degradation and stabilization of different polymers rubbers and final products manufactured from them, respectively. 50 polymers and rubbers are discussed in different sections of Chapter 7 and 40 groups of final products which use majority of UV stabilizers are discussed in Chapter 8. In addition, more focused information is provided in...



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