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Formato	Materiale a stampa
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Nota di contenuto	Front Cover; Additives for Plastics Handbook; Copyright Page; Contents; List of Tables; List of Figures; Preface and Publishers' note; Chapter 1. An Overview of Additives; Chapter 2. Types of Additive and the Main Technical Trends; 2.1 Current Lines of Development; 2.2 Special Additives; 2.3 Multi-functional Formulations; 2.4 Masterbatches; 2.5 Dendritic Polymers; Chapter 3. The World Market; 3.1 World Consumption of Additives; 3.2 The Market for Masterbatch; 3.3 Overall Commercial Trends; 3.4 Growth of Specialist Compounders; 3.5 Regional Factors Chapter 4. Modifying Specific Properties: Mechanical Properties - Fillers 4.1 Effect of Fillers; 4.2 Factors for Compounding; 4.3 Types of Fillers; 4.4 Surface Modification; 4.5 Nano-technology; 4.6 Commercial Trends; Chapter 5. Modifying Specific Properties: Mechanical Properties - Reinforcements; 5.1 Fibres: The Basic Properties; 5.2 Types of Reinforcing Fibre; 5.3 Other Fibres; 5.4 Natural Fibres; 5.5 Forms of Reinforcement; 5.6 Long-fibre Reinforcement; 5.7 New Developments; 5.8 Commercial Trends Chapter 6. Modifying Specific Properties: Appearance - Colorants, Pigments, Dyes, Special Effects 6.1 Main Types of Pigment and Colorant; 6.2 Addition of Colorants; 6.3 Replacement of Cadmium; 6.4 Pigments for Special Effects; 6.5 Laser Marking; 6.6 Pigment Dispersants; 6.7

Multi-functional Systems; 6.8 Pigments for Engineering Plastics; 6.9 The Effect of Pigments on Dimensions; 6.10 Colorants for Food and Medicals; 6.11 Recent Developments; 6.12 Market Trends; Chapter 7. Modifying Specific Properties: Appearance - Black and White Pigmentation; 7.1 Types of White Pigment; 7.2 Black Pigments 7.3 Commercial Trends: Titanium Dioxide 7.4 Commercial Trends: Carbon Black; Chapter 8. Modifying Specific Properties: Resistance to Heat - Heat Stabilizers; 8.1 How They Work; 8.2 Antioxidants; 8.3 Blends; 8.4 Replacement of Heavy Metals; 8.5 Effect of Silica on the Activity of Stabilizers; 8.6 Benzoxazolone Derivatives for PVC; 8.7 New Chemistry for Stabilizers; 8.8 Recent Developments; 8.9 Other Stabilizers; 8.10 Commercial Trends; Chapter 9. Modifying Specific Properties: Resistance to Light - UV Stabilizers; 9.1 How They Work; 9.2 UV Screening Pigments; 9.3 Absorbers 9.4 Energy Transfer Agents/Quenchers 9.5 Scavengers: Hindered Amine Light Stabilizers; 9.6 Synergists with HALS; 9.7 Polymeric Stabilizers; 9.8 Blends; 9.9 Replacement of Heavy Metals; 9.10 Selection of Antioxidants for Use with UV Stabilizers; 9.11 Concentrates, Masterbatches; 9.12 New Chemistry; 9.13 Recent Developments; Chapter 10. Modifying Specific Properties: Flammability - Flame Retardants; 10.1 How They Work; 10.2 Summary of FR additives; 10.3 Halogenated Compounds; 10.4 Other Flame Retardants; 10.5 Phosphorus; 10.6 Intumescent Flame Retardants; 10.7 Halogen-free Systems 10.8 Combinations of Flame Retardants

Sommario/riassunto

Both technically and economically, additives form a large and increasingly significant part of the polymer industry, both plastics and elastomers. Since the first edition of this book was published, there have been wide-ranging developments, covering chemistry and formulation of new and more efficient additive systems and the safer use of additives, both by processors in the factory and, in the wider field, as they affect the general public. This new edition follows the successful formula of its predecessor, it provides a comprehensive view of all types of additives, concentrating m

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Titolo	Fuzzy logic and applications : 8th International Workshop, WILF 2009, Palermo, Italy, June 9-12, 2009 ; proceedings // Vito Di Gesu, Saankar Kumar Pal, Alfredo Petrosino (eds.)
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ISBN	3-642-02282-0
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XIV, 378 p.)
Collana	Lecture notes in artificial intelligence ; ; 5571
Altri autori (Persone)	Di GesuV MasulliF (Francesco) PetrosinoAlfredo PalSankar K
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Advances in Theory of Fuzzy Sets -- Non Contradiction, Excluded Middle, and Fuzzy Sets -- Approximate Parallelism between Fuzzy Objects: Some Definitions -- Barycentric Algebras and Gene Expression -- Fuzzy Quantification Using Restriction Levels -- Least Squares Method for L-R Fuzzy Variables -- Modeling Interpretive Steps in Fuzzy Logic Computations -- Nestings of T-Conorms -- On Coherence and Consistence in Fuzzy Answer Set Semantics for Residuated Logic Programs -- Rough Set Approach to Rule Induction from Imprecise Decision Tables -- Uninorm Based Fuzzy Network for Tree Data Structures -- Advances in Intuitionistic Fuzzy Sets -- A Note on the Conditional Expectation of IF-Observables -- A Survey on the Algebras of the So-Called Intuitionistic Fuzzy Sets (IFS) -- General Form of Probabilities on IF-Sets -- On the E-Probability on IF-Events -- Fuzzy Classification and Clustering -- Rough Ensemble Classifier: A Comparative Study -- A Fuzzy One Class Classifier for Multi Layer Model -- An Experimental Validation of Some Indexes of Fuzzy

Clustering Similarity -- Combining Fuzzy C-Mean and Normalized Convolution for Cloud Detection in IR Images -- Fuzzy C-Means Inspired Free Form Deformation Technique for Registration -- Interpretability Assessment of Fuzzy Rule-Based Classifiers -- Metaclustering and Consensus Algorithms for Interactive Data Analysis and Validation -- Neuro-Fuzzy Approach for Reconstructing Fissures in Concrete's Reinforcing Bars -- Fuzzy Image Processing and Analysis -- Fuzzy Relational Calculus and Its Application to Image Processing -- A Combined Fuzzy and Probabilistic Data Descriptor for Distributed CBIR -- A Fuzzy Approach to the Role of Symmetry in Shape Formation: The Illusion of the Scalene Triangle -- A Unified Algebraic Framework for Fuzzy Image Compression and Mathematical Morphology -- Adaptive Image Watermarking Approach Based on Kernel Clustering and HVS -- An Automatic Three-Dimensional Fuzzy Edge Detector -- Fuzzy Sets for Image Texture Modelling Based on Human Distinguishability of Coarseness -- Geometry of Spatial Bipolar Fuzzy Sets Based on Bipolar Fuzzy Numbers and Mathematical Morphology -- Interactive Image Retrieval in a Fuzzy Framework -- Modelling the Effects of Internal Textures on Symmetry Detection Using Fuzzy Operators -- Multivalued Background/Foreground Separation for Moving Object Detection -- Periodic Pattern Detection for Real-Time Application -- Fuzzy Systems -- A System for Deriving a Neuro-Fuzzy Recommendation Model -- A Type-1 Approximation of Interval Type-2 FLS -- Control of a Non-isothermal CSTR by Type-2 Fuzzy Logic Controllers -- Evaluating Fuzzy Controller Robustness Using Model Checking -- Learning Fuzzy Systems by a Co-Evolutionary Artificial-Immune-Based Algorithm -- Advanced Applications -- A Fuzzy Inference Expert System to Support the Decision of Deploying a Military Naval Unit to a Mission -- A Reasoning Methodology for CW-Based Question Answering Systems -- An Intelligent Car Driver for Safe Navigation with Fuzzy Obstacle Avoidance -- Extending Fuzzy Sets with New Evidence for Improving a Sign Language Recognition System -- General Fuzzy Answer Set Programs -- Reverse Engineering of Regulatory Relations in Gene Networks by a Probabilistic Approach -- Temporal Features in Biological Warfare.
