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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; 1 Introduction; 1.1 Summary; References; 2 Thermoplastics and Thermosets; 2.1 Benefits/Advantages of Plastics; 2.2 Classification; 2.3 Thermoplastics; 2.3.1 Polyolefins; 2.3.2 Polystyrene; 2.3.3 Polyvinylchloride (PVC); 2.3.4 Acrylonitrile-Butadiene-Styrene (ABS); 2.3.5 Poly(methyl methacrylate) (PMMA); 2.3.6 Polyesters; 2.3.7 Nylons; 2.3.8 Polycarbonate; 2.3.9 Polyoxymethylene (POM); 2.3.10 Biodegradable Plastics; 2.4 Thermosets; 2.4.1 Phenol-formaldehyde; 2.4.2 Melamine-formaldehyde (MF); 2.4.3 Epoxies; References; 3 Types of Additives 3.1 Selection of Additives3.2 Surface Property Modifiers; 3.2.1 Antiblocking Agents; 3.2.2 Antifogging Agents; 3.2.3 Antistatic Agents; 3.2.4 Coupling Agents; 3.2.5 Release Agents; 3.3 Chemical Property Modifiers; 3.3.1 Antioxidants; 3.3.2 Biocides; 3.3.3 Flame Retardants; 3.3.4 UV Stabilizers; 3.4 Processing Modifiers; 3.4.1 Blowing Agents; 3.4.2 Crosslinking Agents; 3.4.3 Heat Stabilizers; 3.4.4 Plasticizers; 3.4.5 Processing Aids; 3.4.6 Lubricants; 3.5 Mechanical Property Modifiers; 3.5.1 Fillers; 3.5.2 Impact Modifiers; 3.5.3 Nucleating Agents; 3.5.4 Reinforcing Fibers

3.6 Aesthetic Property Modifiers 3.6.1 Coloring Agents; 3.6.2 Odorants; 3.7 Other Additives; 3.7.1 Curing Agents; 3.7.2 Clarifying Agents; 3.7.3 Chain Extenders; 3.7.4 Accelerators; 3.7.5 Slip Additive or Antislip Agents; 3.7.6 Anti-Plate-Out Additives; 3.7.7 Antiplasticizers; 3.8 Additives from Natural Sources; References; 4 Plastics Additive and Chemistry; 4.1 Properties of Plastics; 4.2 Chemistry of Additives; 4.3 Chemical Properties of Additives; 4.3.1 Antioxidants; 4.3.2 Stabilizers; 4.3.3 Surface Active Additives; 4.3.4 Static Charge and Antistatic Additive; 4.3.5 Antifogging Agents 4.3.6 Anti-blocking Agents 4.3.7 Nucleating Agents; 4.3.8 Lubricants; 4.3.9 Impact Modifiers; 4.3.10 Processing Aids; 4.3.11 Biocides; 4.3.12 Plasticizers; 4.3.13 Foaming Agents; 4.3.14 Organic Peroxides; 4.3.15 Flame Retardants; 4.3.16 Fillers; 4.3.17 Colorants; References; 5 Organic Additives; 5.1 Antioxidants; 5.2 Antistatic Agents; 5.3 Antifogging Agents; 5.4 Antiblocking Agents; 5.5 Slip Additives; 5.6 UV Stabilizers; 5.6.1 Radical Scavengers and Quenchers; 5.7 Nucleating Agents; 5.8 Flame Retardants; 5.9 Lubricants; 5.9.1 Metal Soaps; 5.10 Plasticizers; 5.11 Impact Modifiers 5.12 Fillers 5.12.1 Starch; 5.12.2 Natural Fibers; 5.12.3 Wood Fibers; 5.13 Organic Colorants; 5.13.1 Phthalocyanine Pigments; 5.13.2 Anthraquinone Pigments; 5.13.3 Azo Pigments; 5.13.4 Other Pigments; 5.14 Foaming Agents; 5.15 Chain Extenders; 5.16 Organic Peroxides; 5.17 Accelerators; 5.18 Activators; References; 6 Inorganic Additives; 6.1 Heat Stabilizers; 6.2 Flame Retardants; 6.3 Fillers; 6.3.1 Calcium Carbonate; 6.3.2 Nanofillers; 6.3.3 Silica; 6.3.4 Mica; 6.3.5 Solid Glass Spheres; 6.3.6 Talc; 6.3.7 Asbestos; 6.3.8 Zinc Oxide; 6.3.9 Barium Sulfate; 6.3.10 Calcined Alumina 6.3.11 Aluminum Trihydrate (ATH)

Sommario/riassunto

"Plastics Additives and Testing" is a practical book for engineers and operators and discusses both inorganic and organic chemicals that are widely used as additives in plastics processing operations. It is common practice today to use analytical techniques to improve plastics processing. Because it is critically important to manufacture quality products, a reasonable balance must be drawn between control requirements and parameters for improved processing method with respect to plastics additives. This book serves to implement this balance in the manufacturing line. Wri

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Descrizione fisica	1 online resource (503 p.)
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Nota di bibliografia	Includes bibliographical references (p. 395-471) and index.
Nota di contenuto	Containment before Kennan -- George F. Kennan and the strategy of containment -- Implementing containment -- NSC-68 and the Korean War -- Eisenhower, Dulles and the new look -- Implementing the new look -- Kennedy, Johnson, and flexible response -- Implementing flexible response: Vietnam as a test case -- Nixon, Kissinger, and detente -- Implementing detente -- Reagan, Gorbachev, and the completion of containment.
Sommario/riassunto	When Strategies of Containment was first published, the Soviet Union was still a superpower, Ronald Reagan was president of the United States, and the Berlin Wall was still standing. This updated edition of Gaddis' classic carries the history of containment through the end of the Cold War. Beginning with Franklin D. Roosevelt's postwar plans, Gaddis provides a thorough critical analysis of George F. Kennan's original strategy of containment, NSC-68, The Eisenhower-Dulles ""New Look,"" the Kennedy-Johnson ""flexible response"" strategy, the

