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development process, and will
form an indispensable tool in
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reading not only for materials
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also included, giving plastics
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automotive industry (not least due to CAFÉ standards), plastics will soon be used even further in vehicles. A new chapter has been added to cover the technology trends in this area, and the book has been substantially updated to reflect advancements in

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technology, regulations, and the commercialization of plastics in various areas. Recycling of plastics has been thoroughly revised to reflect ongoing developments in sustainability of plastics. Extrusion processing is constantly progressing, as have

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the elastomeric materials, fillers, and additives which are available. Throughout the book, the focus is on the engineering aspects of producing and using plastics. The properties of plastics are explained, along with techniques for testing, measuring, enhancing,

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capability to produce hundreds of layers in a single film by a melt coextrusion process. These engineered films can have significantly enhanced performance properties, allowing films to be made thinner, stronger, and with better sealing

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microlayer coextrusion processing technology, how to fabricate such structures, structure and properties of such microlayers, and potential applications, thus helping research scientists and engineers develop products which not only fulfill their primary

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future trends in multilayer
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compounds—the most
commercially important family of
plastic materials, making up close
to half of the volume all plastics
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without various additives. The book focuses on polyolefin additives that are currently important in the plastics industry, alongside new additives of increasing interest, such as nanofillers and environmentally sustainable materials. As much as

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possible, each chapter emphasises the performance of the additives in the polymer, and the value each relevant additive brings to polypropylene or polyethylene. Where possible, similar additives are compared by capability and relative cost. In

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this new edition, product tables have been updated with the most current product and company names, new case studies have been added, the role of nanofillers is discussed in greater detail, and the book concludes with a discussion on blending and

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most attractive options as a substitute for non-renewable resources in polymers and composites, and is producing materials with very promising thermomechanical properties relative to traditional, petroleum-based polymers. In addition to

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critical processing and products
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book brings the science of
multilayer films to the practitioner
in a concise and impactful way,
presenting the fundamental
understanding required to
improve product design, material
selection, and processes, and
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material is favored over another for a particular application, or how the film or coating affects material properties. Detailed descriptions and analysis of the key properties of packaging films are provided from both an engineering and scientific

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