

Arburg Allrounder 470 C Golden Edition

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Arburg Allrounder 470 C Golden

In a second exhibit, Arburg built a compact production cell around an Allrounder 470 C Golden Edition and a Multilift Select robotic system. The Allrounder "Packaging" version has sector specific ...

Viva inyección! Injection molding in the spotlight at Plastimagen

In Arburg's Alldrive electric machine series ... the company developed a special Allrounder series named the Golden Edition (see April 2006 MPW). An Allrounder 470 C Golden Edition will be present at ...

NPE 2006 Preview: New technology at the Chicago show? Count on it.

The company also offers RFID systems that can withstand temperatures ranging from -25 ° to 200 ° C. Unlike optical systems' need for a clear line of sight between the label and the reading station, the ...

Annotation Injection moulding is one of the most commonly used processing technologies for plastics materials. Proper machine set up, part and mould design, and material selection can lead to high quality production. This review outlines common factors to check when preparing to injection mould components, so that costly mistakes can be avoided. This review examines the different types of surface defects that can be identified in plastics parts and looks at ways of solving these problems. Useful flow charts to illustrate possible ways forward are included. Case studies and a large b257 of figures make this a very useful report.

This collection focuses on the characterization of minerals, metals, and materials as well as the application of characterization results on the processing of these materials. Papers cover topics such as clays, ceramics, composites, ferrous metals, non-ferrous metals, minerals, electronic materials, magnetic materials, environmental materials, advanced materials, and soft materials. In addition, papers covering materials extraction, materials processing, corrosion, welding, solidification, and method development are included. This book provides a current snapshot of characterization in materials science and its role in validating, informing, and driving current theories in the field of materials science. This volume will serve the dual purpose of furnishing a broad introduction of the field to novices while simultaneously serving to keep subject matter experts up-to-date.

The plastics engineer working on the shop floor in a plastics manufacturing plant often needs quick answers to questions such as why the extruder output is low or whether he can expect

better quality product by changing the resin or if the die pressure can be lowered. Applying state-of-the-art numerical software to address these issues is time-consuming and costly. Starting from practical design formulas which are easily applicable, and yet take the resin rheology into account, this guide provides answers to these questions quickly and effectively by guiding the user step by step through the computational procedures on the basis of illustrative technical examples. Problems related to melt fracture, homogeneity of the melt, effect of screw geometry on the quality of the melt and the effect of die pressure on the pellet surface and their troubleshooting are only few of the topics among many that are dealt with in detail. All the calculations involved can be handled by pocket calculators and hence can be performed right on the site where the machines are running. This guide is a valuable tool not only to troubleshoot but also to estimate the effect of design and process parameters on the product quality in plastics processing.

'Integration of Fundamental Polymer Science and Technology' is a theme that admits of countless variations. It is admirably exemplified by the scientific work of R. Koningsveld and C. G. Vonk, in whose honour this meeting was organized. The interplay between 'pure' and 'applied' is of course not confined to any particular subdiscipline of chemistry or physics (witness the name IUPAC and IUPAP) but is perhaps rarely so intimate and inevitable as in the macromolecular area. The historical sequence may vary: when the first synthetic dye was prepared by Perkin, considerable knowledge of the molecular structure was also at hand; but polymeric materials, both natural and synthetic, had achieved a fair practical technology long before their macromolecular character was appreciated or established. Such historical records have sometimes led to differences of opinion as to whether the pure or the applied arm should deserve the first place of honour. The Harvard physiologist Henderson, as quoted in Walter Moore's *Physical Chemistry*, averred that 'Science owes more to the steam engine than the steam engine owes to Science'. On the other hand, few would dispute the proposition that nuclear power production could scarcely have preceded the laboratory observations of Hahn and Strassmann on uranium fission. Whatever history may suggest, an effective and continuous working relationship must recognize the essential contributions, if not always the completely smooth meshing, of both extremes.

Fiber Technology for Fiber-Reinforced Composites provides a detailed introduction to fiber reinforced composites, explaining the mechanics of fiber reinforced composites, along with information on the various fiber types, including manufacturing of fibers (starting from monomers and precursors), fiber spinning techniques, testing of fibers, and surface modification of fibers. As material technologies develop, composite materials are becoming more and more important in transportation, construction, electronics, sporting goods, the defense industry, and other areas of research. Many engineers working in industry and academics at universities are trying to manufacture composite materials using a limited number of fiber types with almost no information on fiber technology, fiber morphology, fiber properties, and fiber sizing agents. This book fills that gap in knowledge. Unique in that it focuses on a broad range of different fiber types used in composites manufacturing. Contains contributions from leading experts working in both industry and academia. Provides comprehensive coverage on both natural and nanofibers.

Economic success in the plastics processing industry depends on the quality, precision, and reliability of its most common tool: the injection mold. Consequently, misjudgments in design and mistakes in the manufacturing of molds can result in grave consequences.

"Provides the latest authoritative research on the developments, technology, and applications

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of rubbery materials. Presents structures, manufacturing techniques, and processing details for natural and synthetic rubbers, rubber-blends, rubber composites, and thermoplastic elastomers. 80% revised and rewritten material covers major advances since publication of the previous edition."

The safe disposal and reuse of industrial and consumer rubber waste continues to pose a serious threat to environmental safety and health, despite the fact that the technology now exists for its effective recycling and reuse. Mountains of used tires confirm the belief that chemically crosslinked rubber is one of the most difficult materials to recycle. That coupled with a long history of failed attempts to create quality products from crumb rubber has resulted in such a resistance to new ideas concerning rubber recycling that very little literature on the subject has even seen the light of day. Rubber Recycling is one of those rare books that has the potential to directly impact our ecological well-being. The editors of this important volume have filled a void in technological responsibility by bringing together a group of international experts who, using substantial research evidence, prove that the utilization of recycled rubber is not just desirable, but is also quite feasible and profitable. This text provides a thorough overview of the fundamentals of rubber and the challenges of recycling. However, the heart of the book lies in its detailed explanation of the various processes currently available to breakdown, recycle, and reuse crosslinked rubber. These include -- Unconventional polymer recycling High-pressure, high-temperature sintering Ultrasonic and non ultrasonic devulcanization The use of tire particles as replacement aggregates for low-strength concrete material The utilization of powdered rubber waste in the production of rubber compounds The future potential for recycling waste rubber by blending it with waste plastics Never forgetting that these technologies are meaningless without industry participation, the book concludes with a highly practical discussion on how present market demands can be met with recycled rubber.

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