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The Complete Technology Book on Plastic Extrusion, Moulding and Mould Designs

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Author: by Niir Board of Consultants & Engineers
Format: paperback
Code: NI179
Pages: 360
Price: Rs 1,475 | US$ 47
Publisher: NIIR PROJECT CONSULTANCY SERVICES
Shipping: 5 days

About the Book

The Complete Technology Book on Plastic Extrusion, Moulding and Mould Designs (2nd Edition)

In the modern landscape, plastic has become indispensable, finding applications in both hou

sehold and industrial domains. To truly grasp the essence of plastic production, one must understand the basics of plastic extrusion, moulding, and mould designs. These techniques are central not only to the creation of plastic items but also to ensuring their quality and efficiency.

Plastic extrusion is a fundamental method in the production world. It involves heating raw plastic until it melts and then shaping it into a continuous profile through a die. This process is integral for creating a wide range of products such as pipes, tubes, and sheets. The adaptability of plastic extrusion enables manufacturers to craft items in various shapes and sizes, tailored to the specific demands of different industries.

Moulding, contrastingly, is the act of forming plastic using a fixed mould. This category includes multiple methods like injection moulding, blow moulding, and compression moulding. Each method brings its unique set of benefits to the table. Injection moulding stands out due to its capability to produce intricate shapes with exceptional accuracy and speed. This makes it a popular choice for high-volume production of complex items.

The significance of mould designs cannot be overstated. The design phase is critical, as it directly impacts the final product's shape and quality. A carefully crafted mould ensures consistency and adherence to required specifications. Considerations in this phase include selecting the appropriate materials, configuring the mould, and designing efficient cooling systems. These elements collectively contribute to the optimal performance of the mould and consequently, the quality of the finished product.

Understanding the synergy between plastic extrusion, moulding, and mould design is crucial. These processes are interlinked, and their successful integration is key to efficient plastic production. For anyone in the manufacturing sector, from beginners to seasoned professionals, a solid grasp of these techniques is vital for

driving innovation and enhancing production outcomes.

The demand for plastic products created through extrusion, moulding, and mould technologies is experiencing significant growth, primarily driven by factors like increasing industrial activity, growing consumer goods markets, and the automotive sector's need for lightweight materials, with Asia Pacific being a key region for this expansion; this growth is projected to continue with a focus on sustainable and innovative plastic solutions. Overall, the demand for plastic products created through extrusion and moulding is expected to continue growing, with a focus on innovation and development of sustainable materials and manufacturing processes to address environmental concerns.

From plastic extrusion, injection moulding, compression moulding, and blow moulding to plant layout and BIS standards, this book covers everything you need to start, manage, and expand a plastic manufacturing unit.

A total guide to manufacturing and entrepreneurial success in one of today's most plastic industry. This book is one-stop guide to one of the fastest growing sectors of the plastic industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only complete handbook on the commercial production of plastic. It serves up a feast of how-to information, from concept to purchasing equipment.

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PLASTIC EXTRUSION AND MOULDING

CHART & DIAGRAM

PLANT LAYOUT DESCRIPTION OF PLANT LAYOUT AND PROCESS FLOW

WITH SUPPLIERS CONTACT DETAILS

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