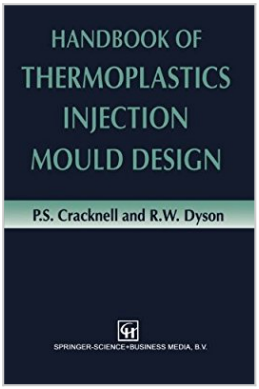

Handbook of Thermoplastics Injection Mould Design

By P.S. Cracknell, R.W. Dyson

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Injection moulding is one of the most important methods of manufacturing plastics products. Through the development of sophisticated micro processor control systems, the modern injection moulding machine is capable of producing precision mouldings with close tolerances in large numbers and with excellent reproducibility. This capability, however, is often limited by the lack of a proper appreciation of mould design. The mould, or tool as it is often called, is at the heart of the injection moulding process. Its basic function is to accept the plastic melt from the injection unit and cool it to the desired shape prior to ejection. It is not, however, simply a matter of the mould having an impression of the shape to be moulded. Many other factors have to be taken into account - for example, the ability to fill the mould impression properly and efficiently without inducing weaknesses in the moulding and the efficient cooling of the moulding in order to maximise production rates without diminishing the quality of the moulding. In addition, the type of mould, gate and runner system, and ejection system which will best meet the needs of a particular job specification have to be determined. In our experience lack of attention to such factors leads to the mould limiting the ability of the injection moulding machine and preventing the process as a whole from achieving its true potential.

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Editorial Review

Review
It is refreshing to be able to review a book on plastics technology written by British authors ... contains a number of useful tables and nuggets of practical advice ... The book is probable worth its price solely for its chapter on hot runner systems ... Highly recommended. - Plastics and Rubber International; An excellent reference book for the practising plastics engineer as well as for the newcomer...well written and presented and lives up to the expectations of plastics engineers. All in all a very good book highly recommended for the plastics engineer... - The Chemical Engineering Journal

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