

# BOOK REVIEW

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*Plastic molds and dies*

Publishing House of the Hungarian Academy of Sciences, Budapest, 1981., pp. 495

The book deals with plastic processing tools in four chapters.

Chapter 1 sums up the main characteristics, viewpoints of the design of tools for hot processing. It contains data concerning the tools for molding, dieing, extruding and vacuum-forming. Chapter 2 discusses the dimensioning of tools, Chapter 3 treats the materials used for manufacturing the tools, and procedures applied in tool production, and, finally, Chapter 4 describes the cutting, chipping and cleaning tools of plastics.

The merit of the book lies in the exceptionally rich illustration. The essence of the book is contained in the first two chapters. The work can be considered as a good summary of its topic, but it has to be noted that it leans mainly on works originating from years before 1970. That is why the lack of the use of recent literature can be felt in many cases. As the book seems to be basically a valuable work, it would be advisable to brush it up.

In its first chapter a significant part is occupied by the overview of molds and the discussion of the viewpoints of their design. This is a consequence of the authors being long busy in this field of industrial practice. In my opinion, the main emphasis should have been placed rather on the design of tools of procedures developed recently (chip-casting, extrusion). There are several novelties in the design of both the chip-casting and extruder tools which should have been considered when writing this chapter.

In the second chapter the discussion of rheological factors in dimensioning is rather incomplete. The equations discussed make only very inaccurate approximations possible. There are calculation methods of a much higher accuracy available. The parts dealing with the automation of tools, tolerance problems and economic questions are excellent.

The book summarizes well the basic knowledge of tool construction, but in the places mentioned earlier the material needs some brushing up and revision.

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