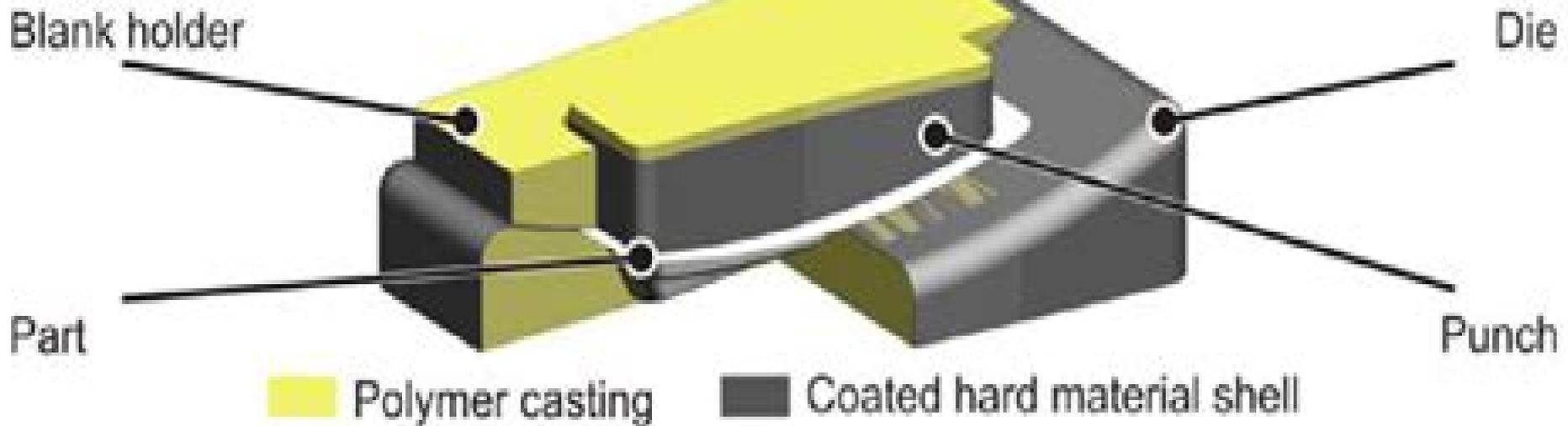
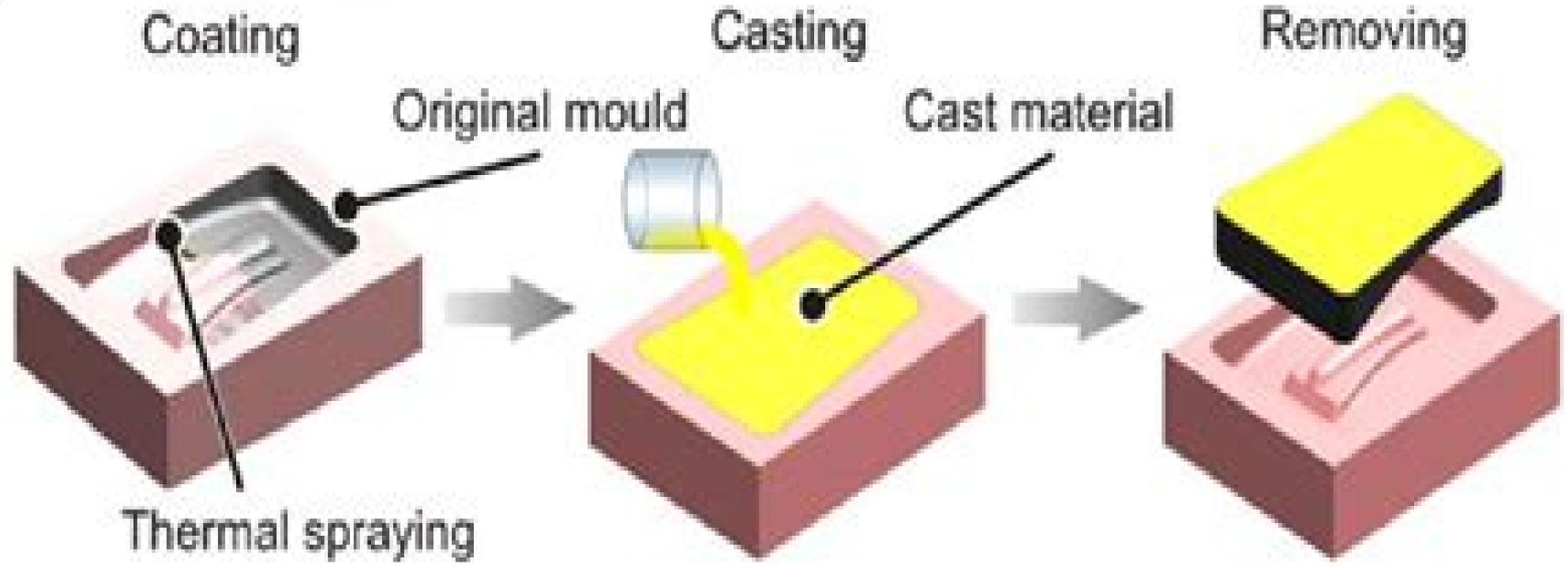


(a) Hybrid deep drawing tool



(b) Manufacture of tool



8 Metal Forming And Cast Metal Technology

Ian Pickup



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Flexible Metal Forming Technologies Xunzhong Guo, 2022-08-23 This book systematically introduces the principles of flexible forming technologies to manufacture thin walled complex shaped components, the mechanism of controlling the material flow, the design and the configuration of flexible forming technologies, equipment and tools. It covers new technologies and new processes for forming hollow components and relevant research on forming mechanisms, deformation laws and defect control with examples from practical applications. It will be a useful reference for researchers, engineers, graduate and undergraduate students in aerospace, nuclear, railway, vehicle and petrochemical engineering etc.

Sheet Metal Forming Taylan Altan, A. Erman Tekkaya, 2012 This practical and comprehensive reference gives the latest developments on the design of sheet forming operations, equipment, tooling and process modeling. Individual chapters cover all major sheet forming processes such as blanking, bending, deep drawing and more. Process modeling using finite element analysis is described in one chapter and discussed in all appropriate chapters. Other chapters cover sensors and die materials which are critical for practical sheet forming applications. Other topics include relatively new technologies such as warm forming of magnesium and aluminum alloys, forming of advanced high strength steels (AHSS) and hot stamping. Chapters also address special sheet forming operations like spinning, incremental forming and mechanical joining and processes related to sheet forming such as sheet and tube hydroforming, roll forming and high velocity forming. **Metallurgia and Metal Forming**, 1977

COMPUTER-ORIENTED NUMERICAL METHODS P. THANGARAJ, 2008-07-22 Numerical methods are powerful problem solving tools. Techniques of these methods are capable of handling large systems of equations, nonlinearities and complicated geometries in engineering practice which are impossible to be solved analytically. Numerical methods can solve the real world problem using the C program given in this book. This well written text explores the basic concepts of numerical methods and gives computational algorithms, flow charts and programs for solving nonlinear algebraic equations, linear equations, curve fitting, integration, differentiation and differential equations. The book is intended for students of B.E. and B.Tech. as well as for students of B.Sc. Mathematics and Physics. **KEY FEATURES** Gives clear and precise

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