

図 1.1 機械材料の分類

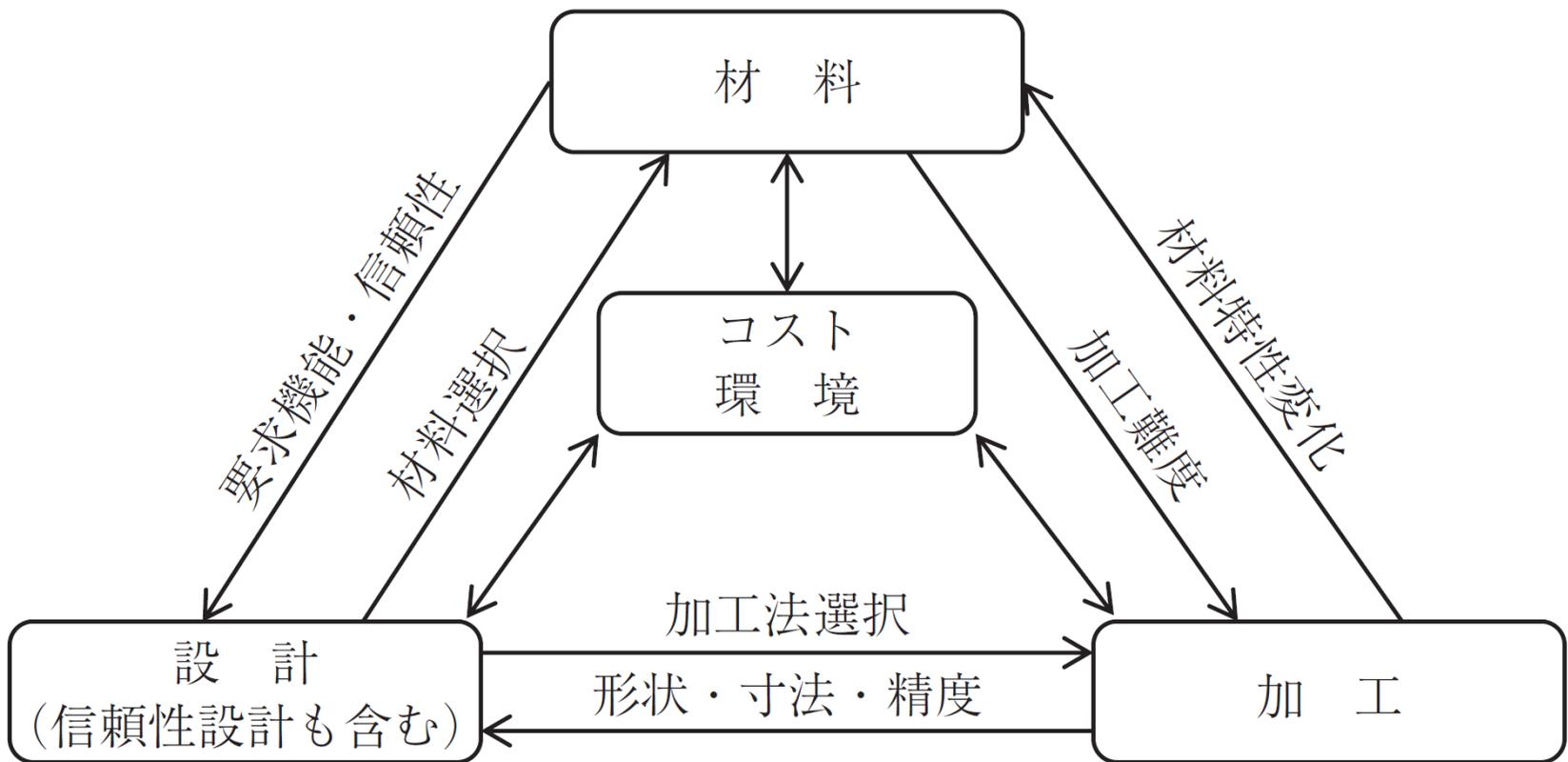
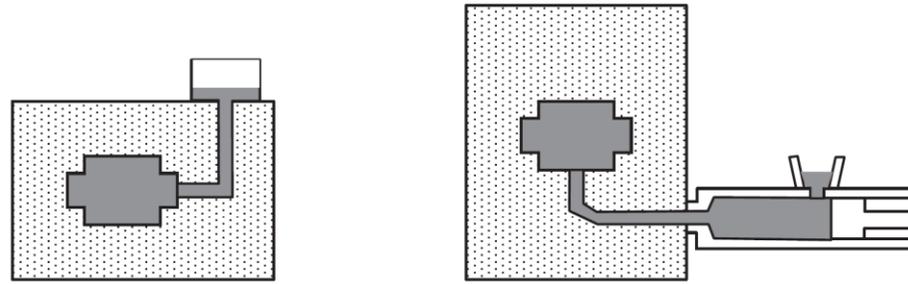
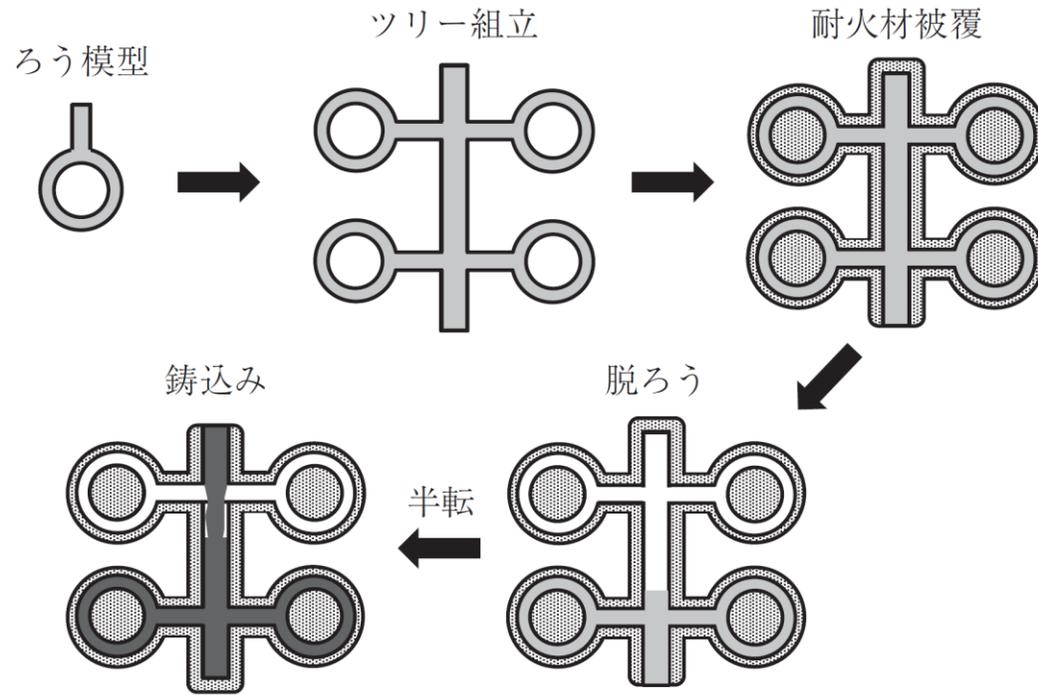


図 1.2 機械材料の選択に関する各種要因



(a) 砂型

(b) ダイカスト



(c) ロストワックス

図 1.3 各種鑄造法

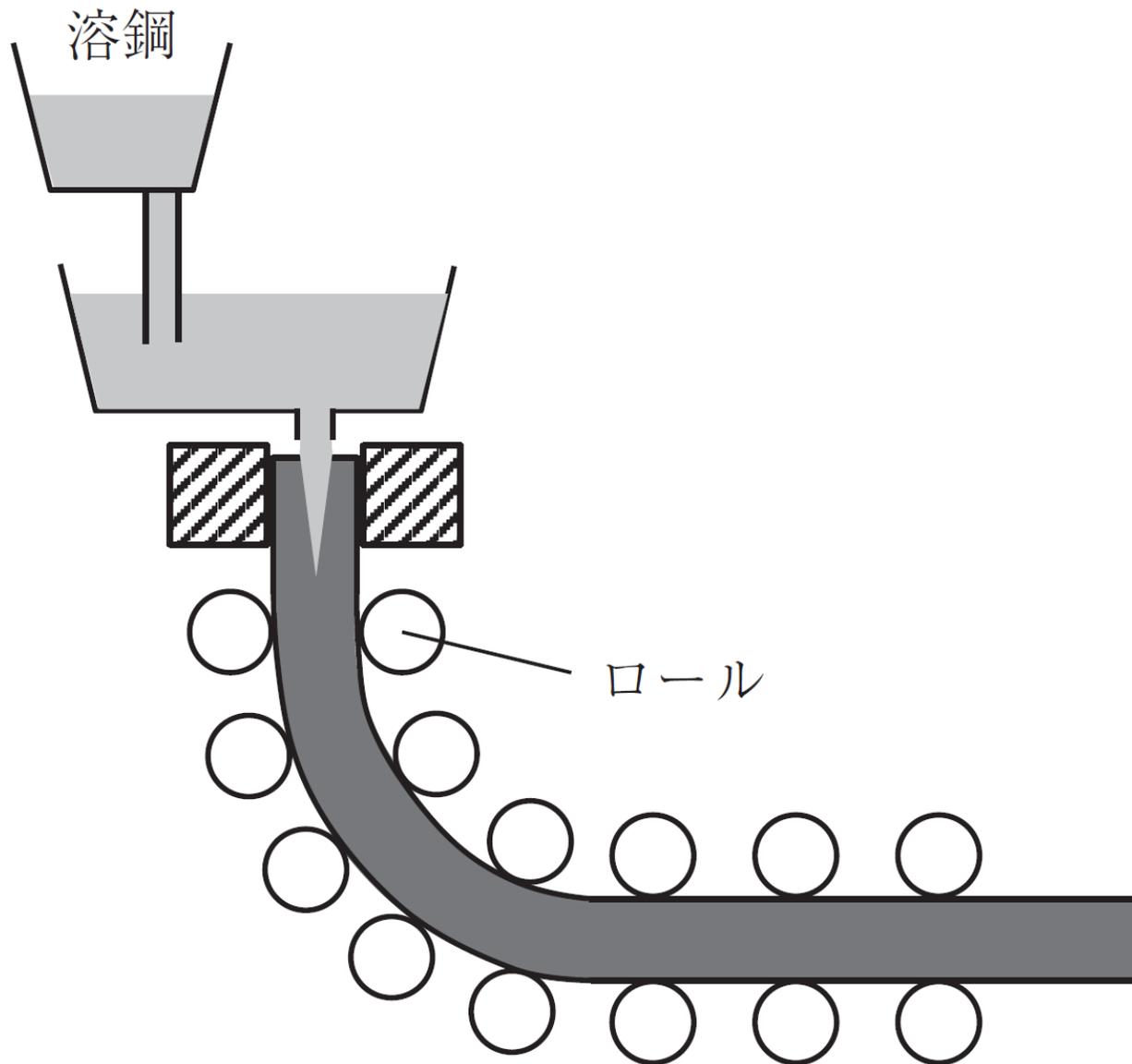


図 1.4 連続鋳造法

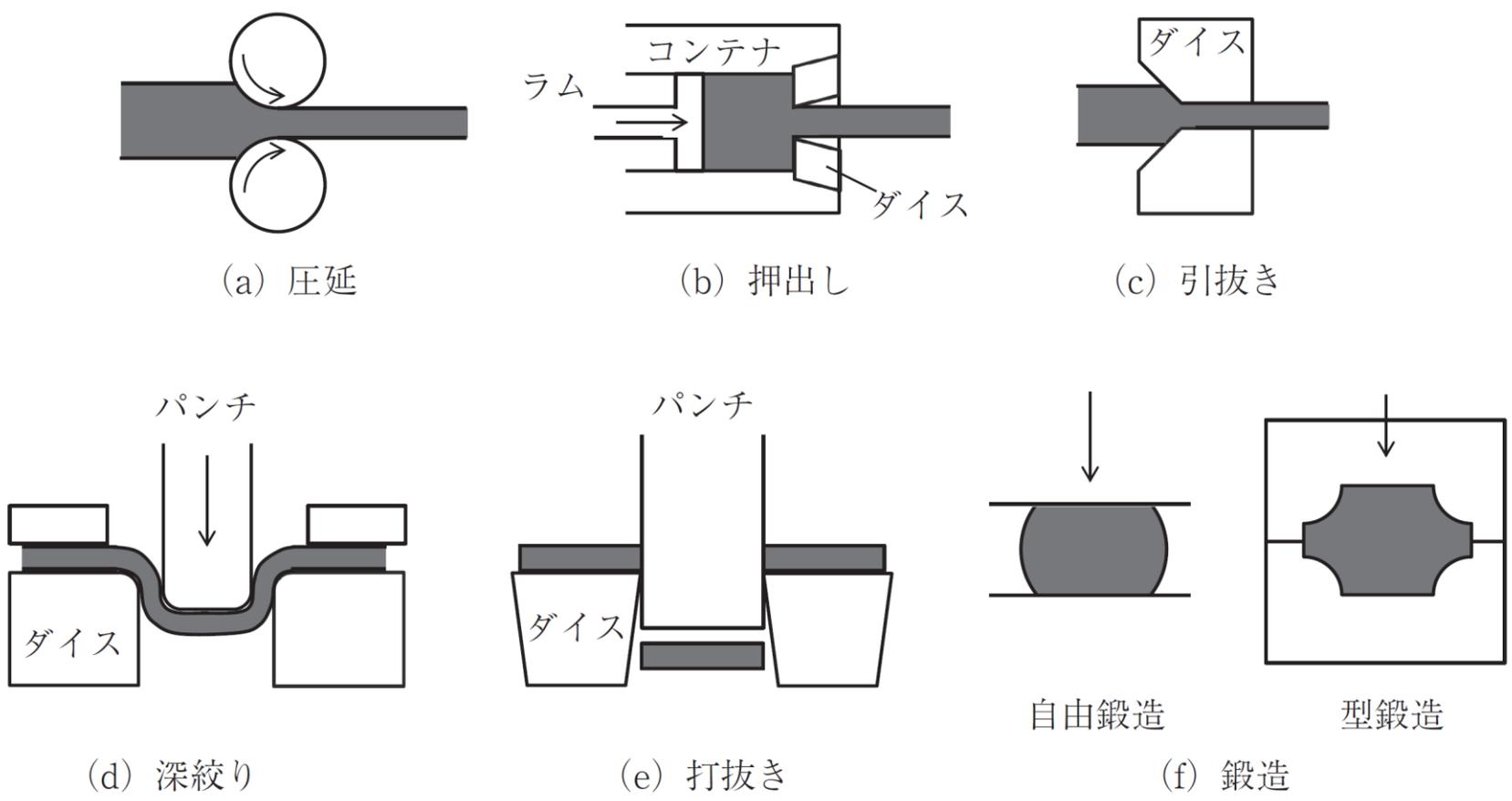
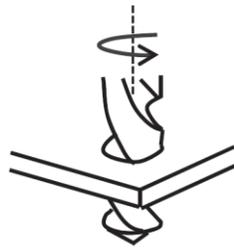


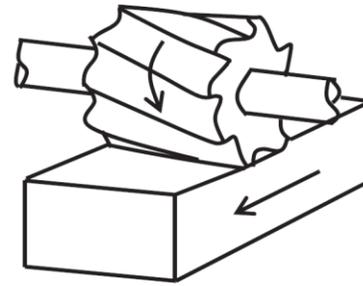
図 1.5 各種塑性加工



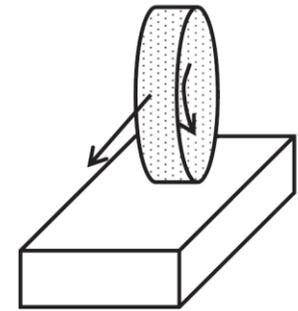
(a) 旋削



(b) 穴あけ



(c) フライス加工



(d) 研削

図 1.6 各種切削加工と砥粒加工

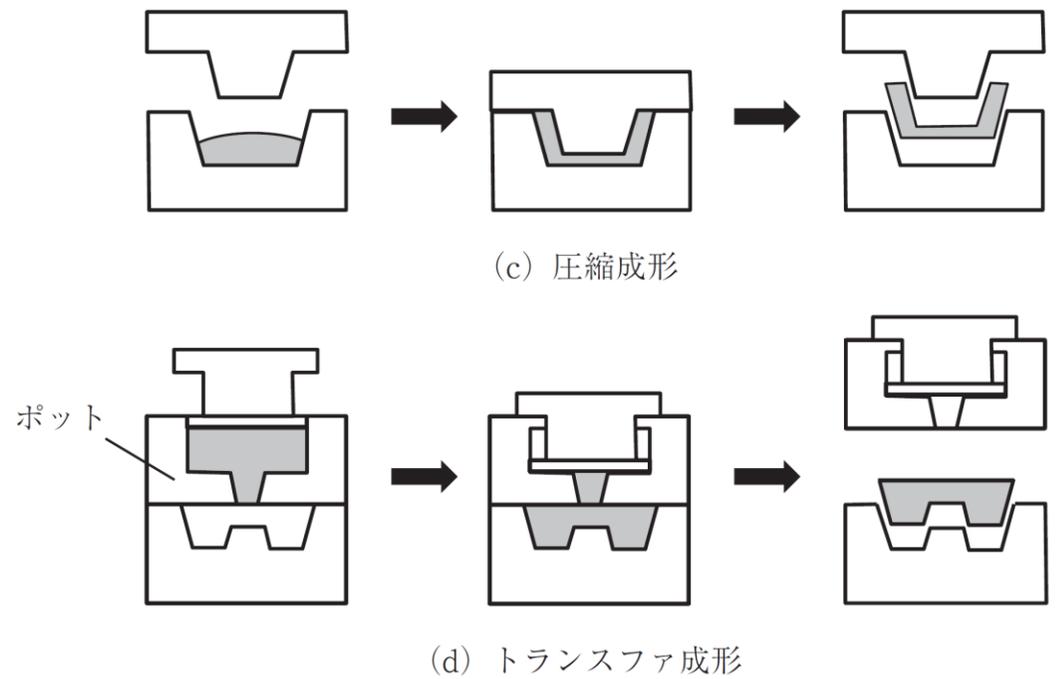
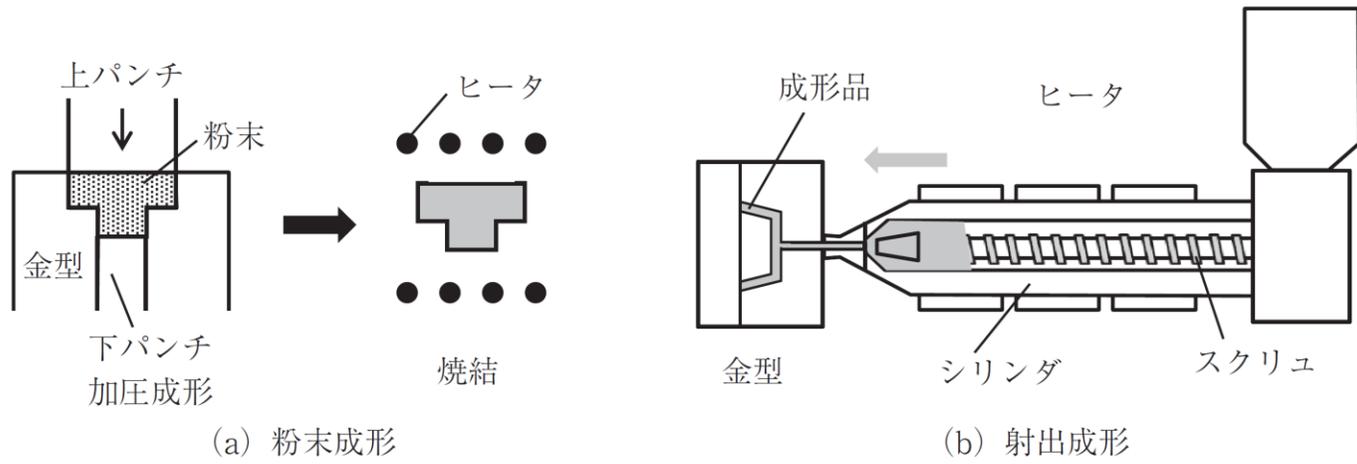


図 1.7 粉末成形および樹脂成形

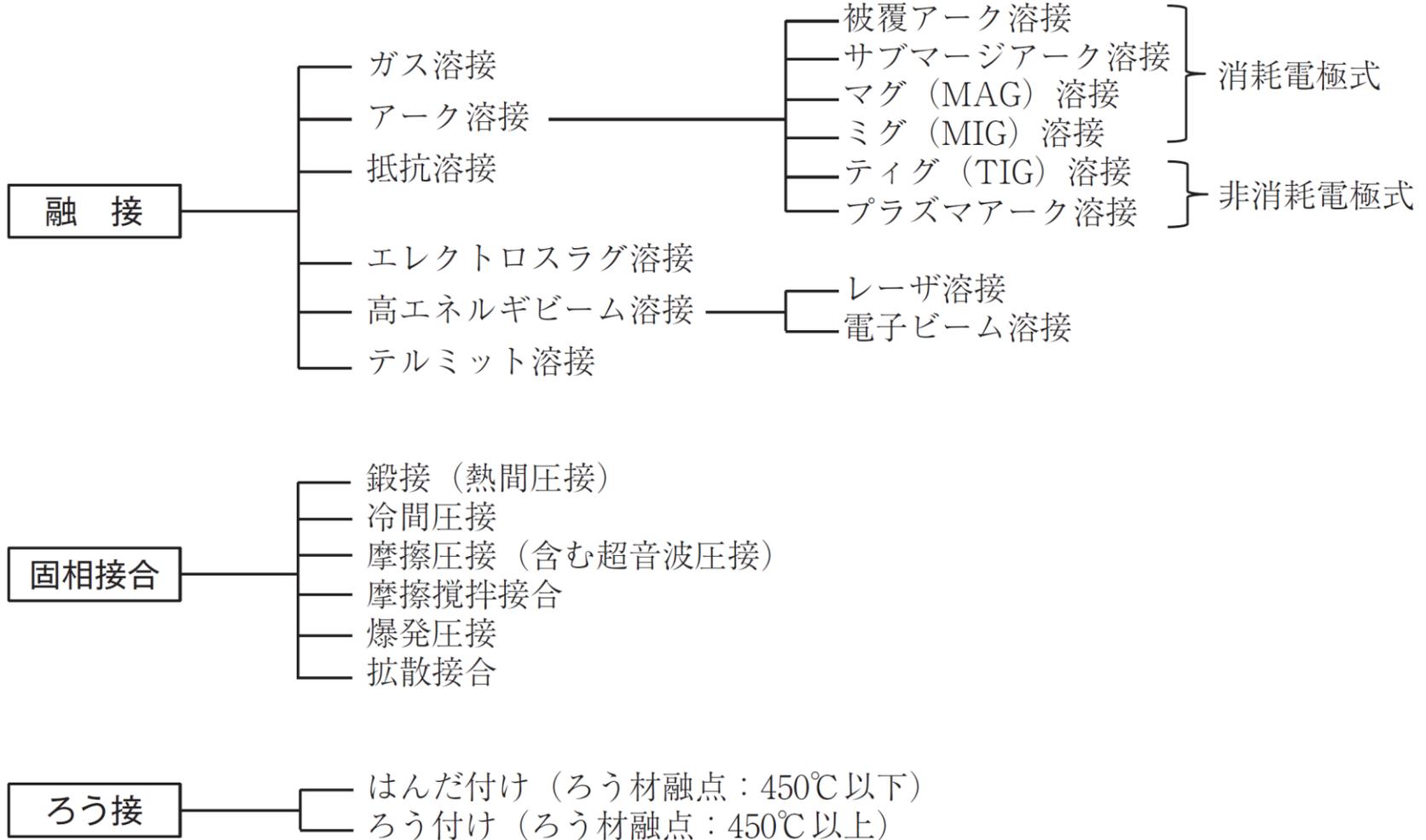
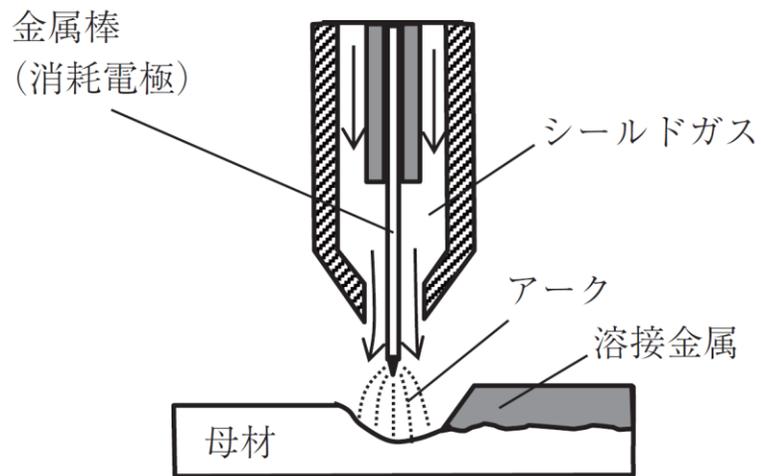
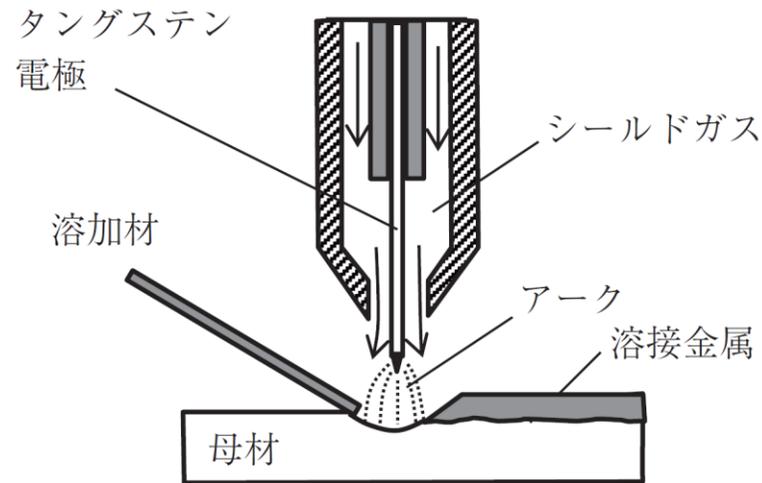


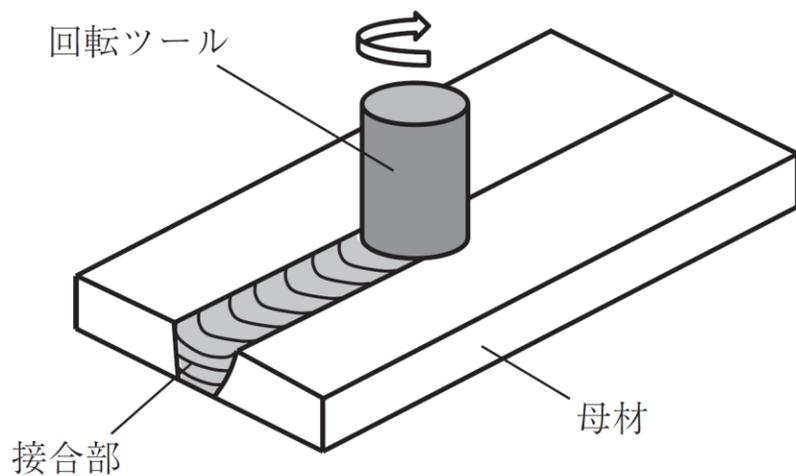
図 1.8 現用溶接法



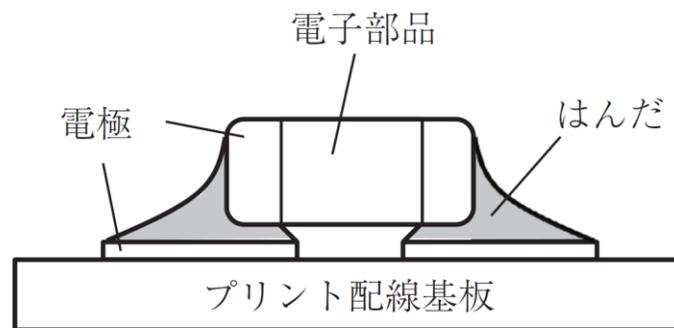
(a) ミグ (MIG) 溶接



(b) ティグ (TIG) 溶接



(c) 摩擦攪拌接合



(d) はんだ付け

図 1.9 各種溶接法

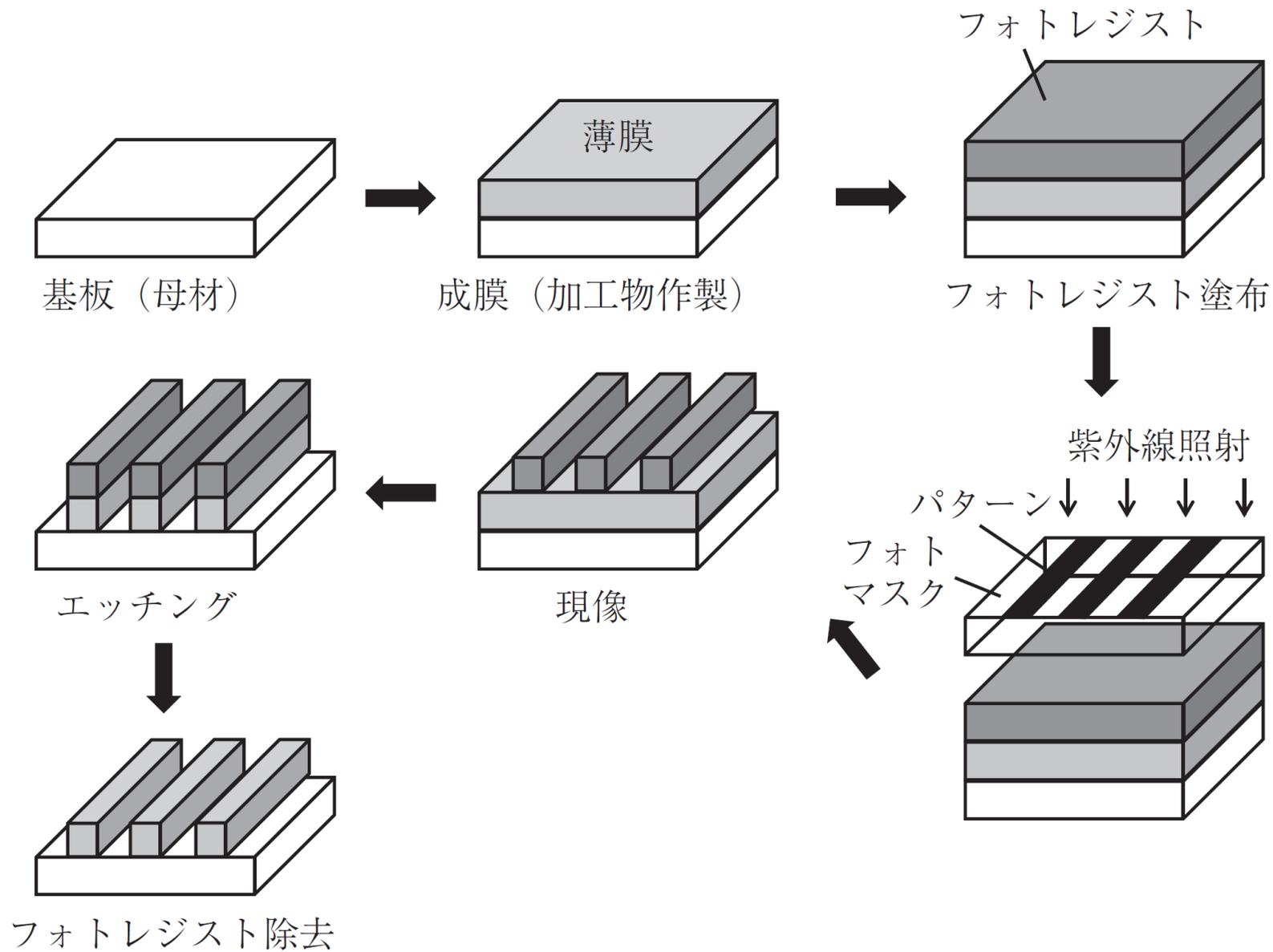


図 1.10 フォトエッチングの原理 (ポジ型)