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The manufacturing processes have been in evidence for the past hundred yearsand are being widely used in diverse areas. Among various manufacturingprocesses, casting, welding, forging, nontraditional manufacturingprocesses etc are commercially used as manufacturing solutions. This specialissue provides an overview of emerging technologies to the areas of Rapidtooling, Rapid moulding, Rapid casting, Die castings, In-process measurementand monitoring for precision/ultra-precision processes, Surfacecharacterisation, Metrology applied to precision/ultra-precision processes Traditional and Non