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Advanced Plastic Forming Processes

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Plastic-forming technologies represent an essential component of advanced manufacturing, as they enable not only the fabrication of components with complex geometries but also the simultaneous achievement of excellent comprehensive in-service performance. Advanced plastic-forming processes, forming theories, and finite element numerical simulation techniques constitute essential pillars supporting the development of metal plastic forming. This Special Issue presents a collection of high-quality research contributions from the field of advanced plastic forming, encompassing ultrasonic vibration-assisted forming, hydroforming, electromagnetic forming, electrically assisted forming, forging, and straightening processes, as well as the structural optimization of stiffened plates and composite materials.

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