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the development of additive manufacturing still faces demanding technical challenges; for example, due to insufficient process planning and inadequate process control, many defects are often observed in the

products of AM processes, reducing production efficiency and

deteriorating product quality. To promote AM technology toward high efficiency, high precision, high performance, and low cost in a green and intelligent direction, many advanced design and manufacturing

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technologies are in urgent need of further breakthroughs, such as
numerical and analytical models for structural design, experimental
methods, performance prediction, and process optimization.