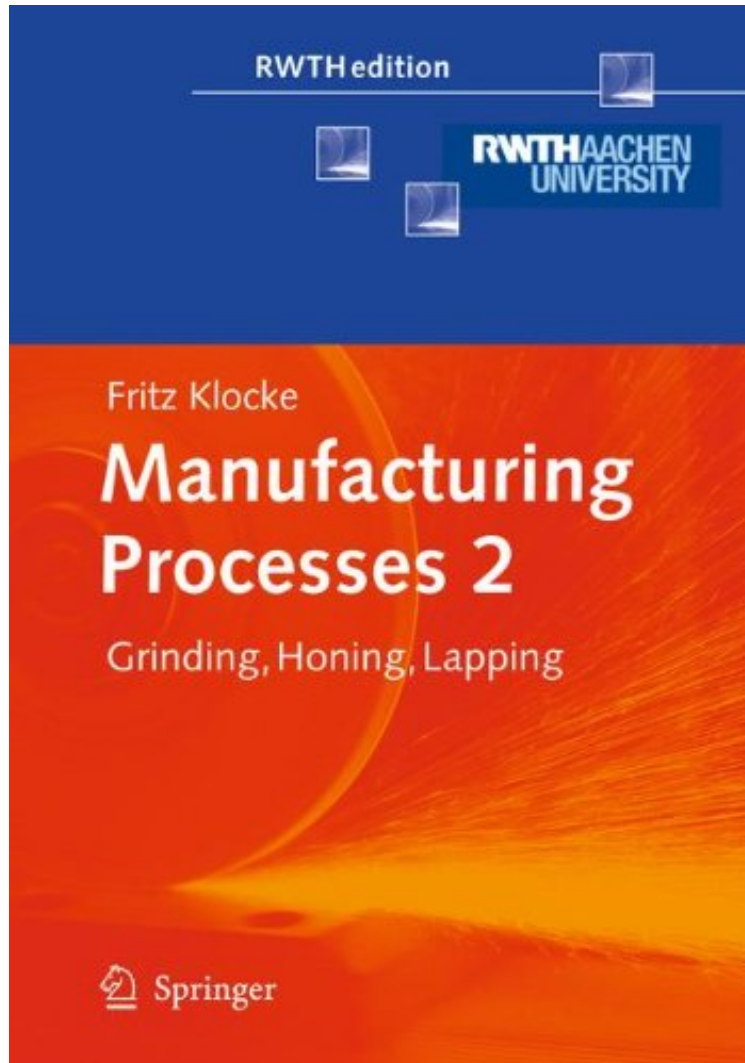


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## Manufacturing Processes 2: Grinding, Honing, Lapping (RWTHedition)

*Fritz Klocke*

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The future of manufacturing companies depends largely on their ability to adapt to swiftly changing global conditions.

These are exemplified by international competition, rapidly growing intercommunication and the increased significance of environmental issues [KLOC98a, ENGE02]. Precision machining with geometrically undefined cutting edges represents a key production engineering technology with high efficiency, security and machining quality. DIN norm 8589 subsumes within the group machining with geometrically defined cutting edges the following material removal manufacturing processes: grinding, honing, lapping, free abrasive grinding and abrasive blast cutting. Machining is carried out in these production methods by means of more or less regularly formed grains composed of hard substances brought into contact with the material. Of all methods understood as machining with geometrically undefined cutting edges, only grinding, honing and lapping can, strictly speaking, be considered precision machining. Free abrasive grinding and abrasive blast cutting, also treated in this book, represent a special group, as they generally cannot bring about geometrical change in the material.