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Titolo	Chatter and Machine Tools // by Brian Stone
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Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (268 p.)
Disciplina	621.902
Soggetti	Manufactures Vibration Dynamics Machinery Manufacturing, Machines, Tools, Processes Vibration, Dynamical Systems, Control Machinery and Machine Elements
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1 -- Basic chatter theory 2 -- Extension of theory 3 -- Chatter resistant multiple-tooth cutters 4.-Structural improvements 5 -- Grinding 6 -- Conclusions.
Sommario/riassunto	Focussing on occurrences of unstable vibrations, or Chatter, in machine tools, this book gives important insights into how to eliminate chatter with associated improvements in product quality, surface finish and tool wear. Covering a wide range of machining processes, including turning, drilling, milling and grinding, the author uses his research expertise and practical knowledge of vibration problems to provide solutions supported by experimental evidence of their effectiveness. In addition, this book contains links to supplementary animation programs that help readers to visualise the ideas detailed in the text. Advancing knowledge in chatter avoidance and suggesting areas for new innovations, Chatter and Machine Tools serves as a handbook for those desiring to achieve significant reductions in noise, longer tool and grinding wheel life and improved product finish.

