



Machining Dynamics: Frequency Response to Improved Productivity

By Tony L. Schmitz, K. Scott Smith

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"Machining dynamics: Frequency response to improved productivity" will train engineers and students in the practical application of machining dynamics, with a particular focus on milling. The book is arranged such that the steps required to improve machining productivity through chatter avoidance and reduced surface location error (forced vibrations resulting in part geometric errors) are clearly evident.

The following topics are covered in detail: modal analysis, including experimental methods, to obtain the tool point frequency response function; descriptions of turning and milling, including force modeling, time domain simulation, stability lobe diagram algorithms, and surface location error calculation for milling; and receptance coupling methods for tool point frequency response prediction, including beam theory. Numerical examples are included, as well as the MATLAB code used to develop the figures.

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Editorial Review

From the Back Cover

Machining Dynamics: From frequency response to improved productivity will train engineers and students in the practical application of machining dynamics, with a particular focus on milling. The book is arranged such that the steps required to improve machining productivity through chatter avoidance and reduced surface location error (forced vibrations resulting in part geometric errors) are clearly evident. The following topics are covered in detail: modal analysis, including experimental methods, to obtain the tool point frequency response function; descriptions of turning and milling, including force modeling, time domain simulation, stability lobe diagram algorithms, and surface location error calculation for milling; and receptance coupling methods for tool point frequency response prediction, including beam theory.

Readers will find:

clear descriptions of predictive algorithms for machining process performance
comprehensive coverage of the fundamentals of machining dynamics
numerous numerical examples
functional MATLAB® code for process predictions.

Machining dynamics: From frequency response to improved productivity will serve as a valuable resource for practicing manufacturing engineers and graduate students interested in learning how to improve machining productivity through consideration of the process dynamics.

Users Review

From reader reviews:

Jenifer Bell:

This *Machining Dynamics: Frequency Response to Improved Productivity* book is just not ordinary book, you have after that it the world is in your hands. The benefit you have by reading this book is usually information inside this e-book incredible fresh, you will get facts which is getting deeper anyone read a lot of information you will get. That *Machining Dynamics: Frequency Response to Improved Productivity* without we recognize teach the one who reading it become critical in pondering and analyzing. Don't possibly be worry *Machining Dynamics: Frequency Response to Improved Productivity* can bring when you are and not make your case space or bookshelves' grow to be full because you can have it in your lovely laptop even cellphone. This *Machining Dynamics: Frequency Response to Improved Productivity* having good arrangement in word and layout, so you will not experience uninterested in reading.

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Reuben Beaubien:

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