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| 1. Record Nr. | UNIORUON00197918 |
| Autore | HOBDAY, Michael |
| Titolo | Innovation in East Asia : the challenge to Japan / Michael Hobday |
| Pubbl/distr/stampa | Aldershot, : Edwaed Elgar, 1995. XVI, 224 p. ; 24 cm. |
| ISBN | 18-589-8017-8 |
| Soggetti | SUD EST ASIATICO - Condizioni economiche e sociali - Sec. 20 |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910827464903321 |
| Autore | Zhang Weihong |
| Titolo | Milling simulation : metal milling mechanics, dynamics and clamping principles / / Weihong Zhang, Min Wan |
| Pubbl/distr/stampa | London, England ; ; Hoboken, New Jersey : , : ISTE Ltd : , : John Wiley and Sons Inc, , 2016
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| ISBN | 1-119-26290-9
1-119-26289-5 |
| Descrizione fisica | 1 online resource (276 p.) |
| Collana | Numerical Methods in Engineering Series |
| Disciplina | 671.35 |
| Soggetti | Milling (Metal-work)
Milling (Metal-work) - Data processing |
| 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 and index. |
| Nota di contenuto | Cover; Title Page; Copyright; Contents; Preface; Introduction; 1: Cutting Forces in Milling Processes; 2: Surface Accuracy in Milling Processes; 3: Dynamics of Milling Processes; 4: Mathematical Modeling of the Workpiece-Fixture System; Bibliography; Index; Other titles from ISTE in Numerical Methods in Engineering; EULA; I.1. Cutting force |

modeling; 1.2. Surface quality simulation; 1.3. Chatter stability analysis;
 1.4. Clamping system design; 1.5. Purpose of this book; 1.1.
 Formulations of cutting forces; 1.2. Milling process geometry ; 1.3.
 Identification of the cutting force coefficients
 1.4. Ternary cutting force model including bottom edge cutting effect1.
 5. Cutting force prediction in peripheral milling of a curved surface;
 2.1. Predictions of surface form errors; 2.2. Control strategy of surface
 form error; 2.3. Surface topography in milling processes; 3.1.
 Governing equation of the milling process; 3.2. Method for obtaining
 the frequency response function; 3.3. Prediction of stability lobe; 4.1.
 Criteria of locating scheme correctness; 4.2. Analysis of locating
 scheme correctness; 4.3. Analysis of workpiece stability
 4.4. Modeling of the workpiece-fixture geometric default and
 compliance4.5. Optimal design of the fixture clamping sequence; 1.1.1.
 Mechanics of orthogonal cutting; 1.1.2. Cutting force model for a
 general milling cutter; 1.2.1. Calculations of uncut chip thickness;
 1.2.2. Determination of entry and exit angles; 1.3.1. Calibration
 method for general end mills; 1.3.2. Calibration method in the
 frequency domain; 1.3.3. Calibration method involving four cutter
 runout parameters; 1.3.4. Identification of shear stress, shear angle
 and friction angle using milling tests
 3.2.1. Derivation of calculation formulations3.2.2. Identification of
 model parameters; 3.3.1. Improved semi-discretization method; 3.3.2.
 Lowest envelope method; 3.3.3. Time-domain simulation method;
 4.1.1. The DOFs constraining principle; 4.1.2. The locating scheme;
 4.1.3. Judgment criteria of locating scheme correctness; 4.1.4. Analysis
 of locating scheme incorrectness; 4.2.1. Localization source errors;
 4.2.2. Fixture modeling; 4.2.3. Locating scheme correctness; 4.3.1.
 Modeling of workpiece stability; 4.3.2. Solution techniques to the
 model of workpiece stability
 4.4.1. Source error analysis
