

Contents

Foreword

「生産加工CAE技術」特集に寄せて Takashi Saito
Survival Tactics with Process CAE

Special Issue : 生産加工CAE技術 Process CAE

Review

- 1 生産加工CAE分野の概況 Koukichi Nakanishi
Development and Applications of Numerical Methods in
Industrial Forming Processes

Research Reports

- 7 板成形CAE—薄板成形変形解析の高精度化— Noritoshi Iwata
Sheet Metal Forming Analysis - Precision Improvement of the
Thin Sheet Metal Forming Analysis
- 13 鍛造CAE—鍛造変形解析の製品内質予測への応用 Koukichi Nakanishi, Noritoshi Iwata
Development of Forging Analysis System - Applications to
Prediction of Material Properties Sayuri Kondo, Osamu Takata
- 19 鋳造CAE—湯流れ・凝固FEM解析の高速・高精度化 Yasushi Iwata
Computer Aid Engineering of Castings - Flow and Solidification
Simulation by FEM Method Improved Accuracy and Computation Time
- 25 3次元樹脂流動解析ソフトRemylop-Flowによる Yoshinori Inoue
射出成形ランナーの流動解析
3-D Flow Simulation of Runners in Injection Molding Using Remylop-Flow

Research Reports

- 31 車体横すべり角推定法の開発 Hiroyuki Yamaguchi, Katsuhiro Asano
Development of Estimation Method of Vehicle Side Slip Angle Yasushi Amano
- 39 エンジン動弁系カム—シム間摩擦解析 Toshihide Ohmori, Haruhiro Hattori
Friction Analysis between Cam and Shim in Engine Valve Train System
- 45 2軸モデル(プロセス軸・空間軸)に基づく Shuichi Sato, Masaru Nakano
生産システムの設計支援方法の開発 Eiji Arai
Approach to Design Manufacturing Systems Using Two Axis
(Design Process, Space) Models
- 51 チタン基複合材料製排気エンジンバルブの開発 Tadahiko Furuta, Takashi Saito
Development of Titanium Metal Matrix Composite Exhaust Valve Toshiya Yamaguchi

Topics

- 57 トランスミッションのギヤノイズ低減 Yoshitsugu Goto
Gear Noise Reduction of a Transmission
- 58 ドアミラー鏡面の空力びり振動に関する流体解析 Yoshihiro Kato
Numerical Analysis of the Vibration caused by Fluid-Dynamic
Force Exerted on a Door Mirror Surface
- 59 金属調塗装樹脂部品の光輝感定量化 Takashi Wada
Quantitative Evaluation of Glittery Feeling for
Metallic Paint Coated Plastic Parts
- 60 多重解像度画像によるステレオ照合 Yoshikatsu Kimura
A Stereo-Matching Method Using Multiresolution Images
- 61 塗膜の高速耐候性試験法 Kanji Mori
Highly Accelerated Weatherability Test Method for Coatings
- 62 薄膜シリカメソ多孔体の配向制御と機能素子応用 Noriaki Sugimoto
Silica Mesoporous Thin Films : Pore Orientation Control and Application

Promenade

- 63 The 2000 International IRCOBI Conferenceに参加して Yuko Nakahira
An Impression of the 2000 International IRCOBI Conference