



May 11, 2024

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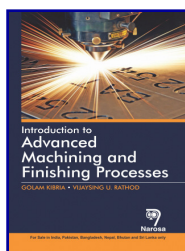
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## Introduction to Advanced Machining and Finishing Processes

**Author(s):** Golan Kibria, Vijaysingh U. Rathod

**ISBN:** 978-81-8487-654-3

**E-ISBN:**

**Publication Year:** 2019

**Pages:** 434

**Binding:** Paperback

**Dimension:** 160mm x 240mm

**Weight:** 610

### About the book

INTRODUCTION TO ADVANCED MACHINING AND FINISHING PROCESSES focuses on applications of non-conventional machining processes for advance machining as well as advanced surface finishing. Study of non-conventional machining processes mainly includes working principles, material removal mechanisms, system details, process parameters and their influence on performance, process capabilities, advantages, limitations, and applications etc. applications of non-conventional machining processes to achieve micro and nano level finishing on various product surfaces highlights working principles, material removal mechanisms, system details, process parameters and their influence on performance advantages, limitations, and applications of these process in various fields. The book will be helpful for engineering post-graduates and under-graduate students, practicing engineers and researchers in manufacturing or production discipline.

### Key Features

- Advanced machining, as well as micro and nano-finishing processes are covered
- Multiple choice questions (MCQs) and numerical problems with solutions given
- Contains unsolved elaborative review questions for practice
- References in each chapter for further and in-depth reading of the processes.

### Table of Contents

Foreword / Preface / Acknowledgement / Advanced Machining Processes: An Introduction / Abrasive Jet Machining (AJM) / Ultrasonic Machining (USM) / Water Jet Machining (WJM) / Abrasive Water Jet Machining (AWJM) / Chemical Machining (CHM) / Electrochemical Machining (ECM) / Electrical Discharge Machining (EDM) / Wire Electrical Discharge Machining (WEDM) / Laser Beam Machining (LBM) / Electron Beam Machining (EBM) / Plasma ARC Machining (PAM) / Ion Beam Machining (IBM) / Electrical Discharge Grinding (EDG) and Electrical Discharge Diamond Grinding (EDDG) / Electrochemical Grinding (ECG) / Electrochemical Discharge Grinding (ECDG) / Electrochemical Honing (ECH) / Electrochemical Buffing (ECB) / Electrochemical Advanced Drilling Processes / Electrochemical discharge Machining (ECDM) / Electrochemical Deburring (ECDE) / Assisted Hybrid Processes / Abrasive Flow Finishing (AFF) / Magnetic Abrasive Finishing (MAF) / Magnetic Float Polishing (MFP) / Magneto Rheological Finishing (MRF) / Magneto Rheological abrasive Flow Finishing (MRAFF) / Elastic Emission Machining (EEM) / Chemical Mechanical Polishing (CMP) / Advanced Micromachining Processes / Index.

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