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Advanced Machining Processes Nontraditional And

His research areas include Advanced Finishing and Nano-finishing Processes, Magnetorheological Finishing (MRF) Process, Advanced/Non-traditional Machining Processes, Micromachining processes. Dr. Das has published more than 20 papers in reputed journal and conferences.

Advanced Machining Processes - Course

Non-Traditional Machining Method is an advanced method used to overcome the problems of Traditional Machining methods. The Non-Traditional Machining methods include, Ultrasonic Machining, Laser Beam Machining, Water Jet Machining, Abrasive Water Jet Machining, Electron Beam Machining, etc. which were presented in this article in a detailed way.

Non-Traditional Machining: Definition, Types, Advantages ...

Nontraditional machining processes, also called advanced manufacturing processes, are employed where traditional machining processes are not feasible, satisfactory or economical due to special reasons as outlined below. • Very hard fragile materials difficult to clamp for traditional machining

Unconventional machining process

Abrasive jet machining (AJM) is one of the advanced machining processes (mechanical energy based) where a high velocity jet of abrasives is utilized to remove material from work surface by impact erosion. The abrasive jet is obtained by accelerating fine abrasive particles in highly pressurized gas (carrier gas).

Abrasive Jet Machining (AJM) - Process, Parameters ...

Electrochemical machining (ECM) is a method of removing metal by an electrochemical process. It is normally used for mass production and is used for working extremely hard materials or materials that are difficult to machine using conventional methods. Its use is limited to electrically conductive materials. ECM can cut small or odd-shaped angles, intricate contours or cavities in hard and ...

Electrochemical machining - Wikipedia

Advanced materials have replaced conventional materials in various fields of application including aeronautical, aerospace, automotive, biomechanical, mechanical and other industries. As a result of these properties and potential applications, there exists an urgent need to understand questions associated with the machinability of these materials.

International Journal of Machining and Machinability of ...

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Advanced Manufacturing Processes, Nontraditional Micro-machining, Metal Matrix Composites, Primary and Secondary Processing of MMC, Quality Management, QFD for service sector, akshaydvivedi@me.iitr.ac.in 01332285428

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