

Exploration of Application and Practice of Numerical Control Technology in Machine Manufacturing

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Abstract. With improvement of computer technology and digital technology level, the superiority of numerical control technology application in machine manufacturing gradually stands out. Numerical control technology optimizes equipment effect and quality, promotes market competitiveness of enterprises and drives leapfrog development of machine manufacturing industry. This paper briefly analyzes operation model of numerical control technology and discusses application process and development trend of numerical control technology in machine manufacturing so as to offer valuable reference for technical management personnel in machine manufacturing project.

Introduction

The development of modern machine manufacturing project presents a coercive trend. Traditional technological parameters and operation technology cannot adapt the demand of new products. Thus, relevant researchers need to establish complete technology upgrade planning according to actual conditions, and apply development framework of numerical control technology to promote actual quality of machine manufacturing. Equipment operating efficiency can improve, and products manufactured can conform to quality standards. In addition, numerical control technology can smoothly promote fusion of technology project and industrial development, enhance machine manufacturing structure level and boost market competitiveness of enterprises.

Overview of numerical control technology

Development history of numerical control technology

Development history of numerical control technology has presented high-speed development state in recent years. In about 1938, fast data operation and transmission project also showed a rapid development trend, which laid the operation foundation for computer numerical control technology. In 1952, the first set of numerical control machine tool was born in machinery industry.

Connotation and operation principle of numerical control technology

During studying numerical control technology, it is required to guarantee integrity of relevant operation parameter and structure, and start from technical level of numerical control technology in order to achieve entire technical parameter upgrade. Numerical control technology mainly utilizes computer technology and traditional machining process to enhance control of construction process. In technical operation process, operation mechanism of machinery project improves with the help of speed control, angle control and position control to make sure the operation framework of numerical control technology complies with actual project demand. In addition, the wide operation range of numerical control technology is based on its high efficiency and high precision advantages. Numerical control technology can effectively promote automation process and ensure important value of modern integration system.

Moreover, in order to achieve effective fusion of numerical control operation and computer technology, it is required to make sure smooth implementation of automatic control and machine manufacturing operation with the help of electric drive and precise measurement structure in the

Numerical Control Practice And Application

Bruce J. Black



Numerical Control Practice And Application:

Numerical Control: Practice and Application W. J. Patton, 1972 Technical Report on Occupations in Numerically Controlled Metal-cutting Machining United States Employment Service, 1968 Collection of job descriptions in respect of machine operators of various machine tools incorporating numerical control devices automatic control in the metalworking industry in the USA Selected bibliography on job analysis occupational titles etc Pp 90 and 91 **Library of Congress Subject Headings** Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 **Workshop Processes, Practices and Materials** Bruce J. Black, 2015-03-27 Workshop Processes Practices and Materials is an ideal introduction for entry level engineers and workshop technicians as well as engineering university students with little or no practical experience With detailed illustrations throughout and simple clear language this is a practical introduction to what can be a very complex subject It has been significantly updated and revised to include new material on current Health and Safety legislation gauging and digital measuring instruments as well as modern measuring techniques such as laser scan micrometer co ordinate and visual measuring systems A new chapter on an introduction to CNC milling and turning has been added This book covers all standard workshop topics including safe practices measuring equipment hand and machine tools metal and plastics materials joining methods including welding presswork primary forming casting and moving loads making it an indispensable handbook for use both in class and the workshop Its broad coverage makes it a useful reference book for many different courses worldwide Health and Safety chapter covers current best practice and has been checked by a certified health and safety examiner Addition of modern measuring techniques using laser scan micrometer co ordinate and visual measuring systems Addition of an introduction to CNC milling and turning *Principles and Practices of CAD/CAM* Vikram Sharma, Vikrant Sharma, Om Ji Shukla, 2023-12-18 CAD CAM systems are perhaps the most crucial advancement in the field of new technology relating to engineering design and drawing in all technical domains CAD CAM stands for computer aided design and computer aided manufacturing These systems are useful in all facets of contemporary design and architecture The fundamentals of CAD CAM systems are covered in detail throughout this book This book aims to introduce the fundamental aspects complete with an adequate number of illustrations and examples without delving too deeply into the specifics of the subject matter This book is valuable in the classroom for both teachers and students Features Each chapter begins with the Learning Outcomes LOs section which highlights the critical points of that chapter All LOs solved examples and questions are mapped to six Bloom Taxonomy levels BT levels Offers fundamental concepts of CAD CAM without becoming too complicated Solved examples are presented in each section after the theoretical discussion to clarify the concept of that section Chapter end summaries reinforce key ideas and help readers recall the concepts discussed Students and professionals need to have a working knowledge of CAD CAM since it has many applications and continues to expand Students at the undergraduate and graduate levels of engineering

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Numerical Control Practice And Application Introduction

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