

Introduction To Machining Science Gk Lal

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about the book this book is an attempt to consolidate the basic scientific studies in the machining area so that fundamental mechanics and other concepts related to primary machining processes could be understood the book is essentially designed for senior undergraduate mechanical and production engineering students but practicing engineers will also find it useful for tool and product design the topics covered include plastic deformation chip formation tool geometry mechanics of orthogonal and oblique cutting measurement of cutting force cutting temperature tool wear and tool life economics of machining grinding of metals and machining vibrations the analyses presented have been illustrated through numerical examples review questions and bibliography are also included about the author dr g k lal has been associated with the indian institute of technology kanpur for the past 34 years he retired as a professor of mechanical

engineering in 2003 and had earlier held the positions of dean 1976 80 and deputy director 1982 88 before joining iit kanpur he had taught at the banaras hindu university and held research positions at the university of sherbrooke canada and the carnegie mellon university usa he also worked as a design engineer with the abitibi paper and power corp of canada

machining processes have existed for a long time but it was only after the scientific study of these processes which started some fifty years ago that major improvements in tool design tool materials and machining techniques were brought about this book is an attempt to consolidate the basic scientific studies in the machining area so that fundamental mechanics and other concepts related to the primary machining processes could be understood the chapters have been arranged in a logical sequence and the materials are presented in such a manner that no special background is required the book is essentially designed for senior undergraduate mechanical production engineering students but practicing engineers will also find it useful for tool and product design the topics covered includes mechanics of machining processes measurement of cutting forces thermal aspects of machining tool wear and tool life economics of machining and grinding of metals the basic analyses presented have been illustrated through numerical examples

as machining processes become more advanced so does the science behind them this book emphasizes these scientific developments in addition to the more widely covered technological aspects providing a full understanding of how machining has adapted to material constraints and moved beyond conventional methods in recent years numerous processes have been developed to allow the use of increasingly tough corrosion resistant and temperature resistant materials in machining the advanced machining processes covered in this book range from mechanical thermoelectric and electrochemical including abrasive water jet machining electric discharge machining and micromachining ion beam machining and hybrid processes it also addresses the sustainability issues raised by these processes the underlying science of machining is centered throughout as none of these processes can reach their full potential without both technical expertise and scientific understanding advanced machining science and its scientific approach will be of particular interest to students researchers and shop floor engineers

this is the second volume of a series of edited books whose aim is to collect contributions from within a framework that can serve as a collection of persons in mms mechanism and machine science this is a continuation of the first volume that was published in 2008 again combining very ancient and very recent scholars in order to give not only an encyclopaedic character to this project but also to emphasize the significance of mms over time this project has the characteristic that the papers illustrate by recognizing persons and their scientific work mainly technical developments in the historical evolution of the fields that today are grouped in mms thus emphasis is also given to biographical notes describing efforts and experiences of people who have contributed to the technical achievements whose technical survey is the core of each contributed paper this second volume of the project has been possible thanks to the invited authors who have enthusiastically shared in this initiative and who have spent time and effort in preparing the papers the stand alone papers cover the wide field of the history of mechanical engineering with specific focus on mms i believe that readers will take advantage of the papers in this book and future ones by supplying further satisfaction and motivation for her or his work historical or not

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