



# Handbook of Gear Technology

By D.D. Chawathe

New Age International (P) Limited, 2011. Hardcover. Book Condition: New. First edition. This book presents a comprehensive treatment of the theory, practice and design aspects of gear technology. Basic concepts and design principles have been systematically explained and illustrated through solved examples. Part I of the book explains theory of gears covering all gear forms, namely, spur, helical gears, straight, spiral, zerol bevel gears, hypoid gears and worm gears. It also details the basic conjugacy requirement of gears. For the first time, a consistent coverage is given to addendum modified gearing in a separate chapter. This part of the book will help gear engineers in carrying out the dimensional calculations for gear teeth. Part II features gear practice incorporating gear materials, their heat treatment, gear lubrication, gear cutting processes, gear cutting tools and inspection of gears. This part also explains the underlying principles which would help gear engineers in analysing many of the problems encountered in gear manufacturing. Part III highlights the design of gears. It describes in detail gear design formulae under various design standards. As the underlying technical evaluation is also given in deriving these formulae, the presentation will help gear designers in understanding various standards and the...



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