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                        Contents; Preface; Acknowledgments; About the Author; Chapter 1 -
                        Design; 1.1 Introduction; 1.2 The Design Process; 1.3 Total Design; 1.4
                        Systematic Design; 1.5 Double Diamond; 1.6 Conceive, Design,
                        Implement, Operate (CDIO); 1.7 Design for Six Sigma; 1.8 Design
                        Optimization; 1.9 Stage-Gate Process; 1.10 The Technology Base; 1.11
                        Conclusions; References; Further Reading; Nomenclature; Chapter 2 -
                        Specification; 2.1 Introduction; 2.2 Product Design Specification; 2.3
                        Quality Function Deployment; 2.4 Conclusions; References
                        Further ReadingNomenclature; Chapter 3 - Ideation; 3.1 Introduction;
                        3.2 Creative Process; 3.3 Brainstorming; 3.4 Creative Problem Solving;
                        3.5 SCAMPER; 3.6 Create Process; 3.7 Morphological Analysis; 3.8
                        Standard Solutions; 3.9 Boundary Shifting; 3.10 The Creativity and
                        Innovation Engine; 3.11 Conclusions; References; Further Reading;
                        Chapter 4 - Machine Elements; 4.1 Introduction; 4.2 Bearings; 4.3
                        Gears, Belts, and Chains; 4.4 Clutches and Brakes; 4.5 Seals; 4.6
                        Springs; 4.7 Fasteners; 4.8 Wire Rope; 4.9 Pneumatics and Hydraulics;
                        4.10 Enclosures; 4.11 Conclusions; References
                        Further ReadingNomenclature; Chapter 5 - Journal Bearings; 5.1
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                        Bearings; 5.4 Design of Full-Film Hydrodynamic Bearings; 5.5
                        Conclusions; References; Further Reading; Nomenclature; Chapter 6 -
                        Rolling Element Bearings; 6.1 Introduction; 6.2 Bearing Life and

Sommario/riassunto	Mechanical Design Engineering Handbook is a straight-talking and forward-thinking reference covering the design, specification, selection, use and integration of machine elements fundamental to a wide range of engineering applications. Develop or refresh your mechanical design skills in the areas of bearings, shafts, gears, seals, belts and chains, clutches and brakes, springs, fasteners, pneumatics and hydraulics, amongst other core mechanical elements, and dip in for principles, data and calculations as needed to inform and evaluate your on-the-job decisions. Covering the f