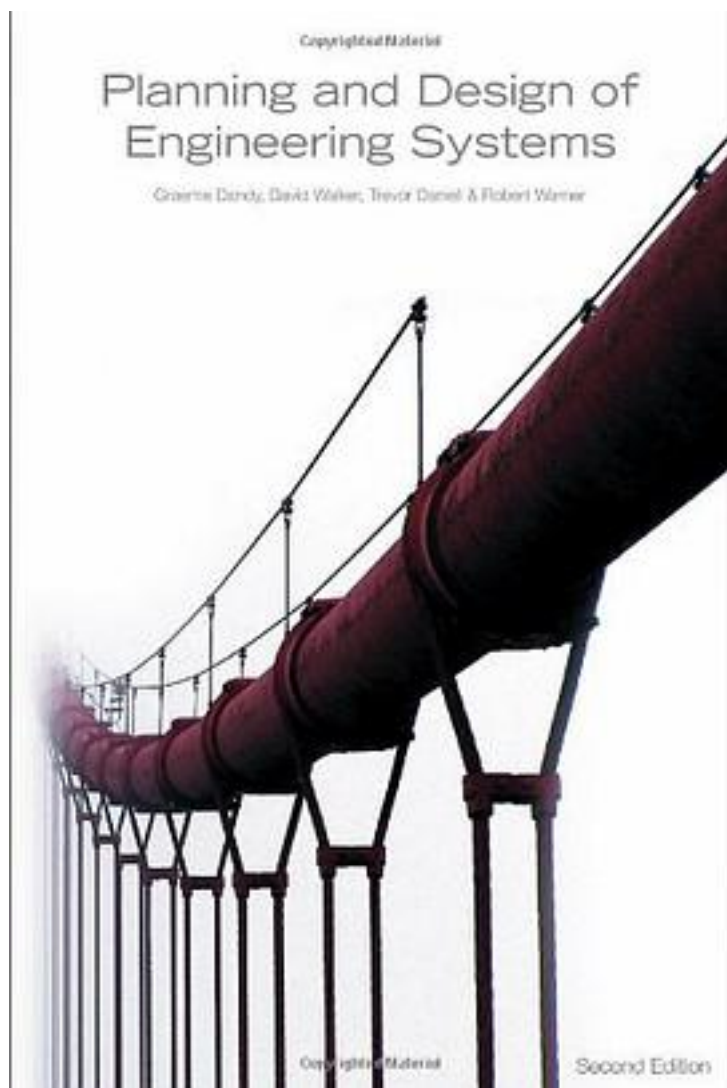


Planning and Design of Engineering Systems



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Providing students with a commonsense approach to the solution of engineering problems and packed full of practical case studies to illustrate the role of the engineer, the type of work involved and the methodologies employed in engineering practice, this textbook is a comprehensive introduction to the scope and nature of engineering. It outlines a conceptual framework for undertaking engineering projects then provides a range of techniques and tools for solving the sorts of problems that commonly arise. Focusing in particular on civil engineering design and problem solving and the range of techniques and tools it employs, the authors also explore: creativity and problem solving, social and environmental issues, management, communications and law and ethics the planning, design, modelling and analysis phases and the implementation or construction phase. Designed specifically for introductory courses on undergraduate engineering programs, this extensively revised and extended new edition is an invaluable resource for all new engineering undergraduates as well as non-specialist readers who are seeking information on the nature of engineering work and how it is carried out.

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