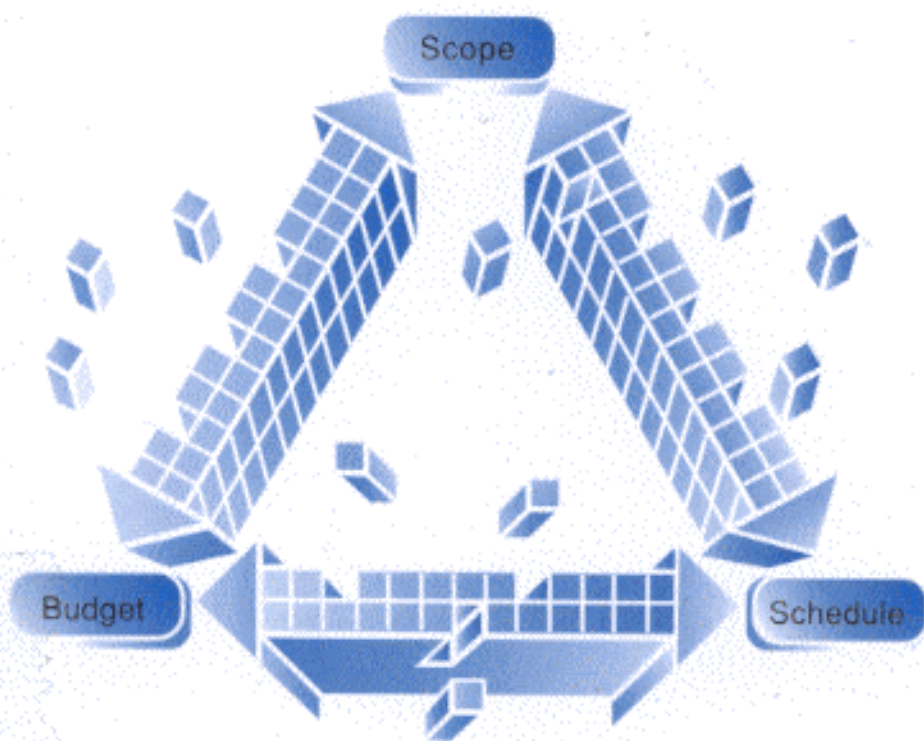


Project Management for Engineering and Construction

Second Edition



Garold D. Oberlender



McGRAW-HILL INTERNATIONAL EDITIONS
Civil Engineering Series

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by Chris Hendrickson, Department of Civil and Environmental Engineering, Carnegie Mellon University, Pittsburgh, PA 15213 Copyright C. Hendrickson 1998. First Edition originally printed by Prentice Hall, ISBN 0-13-731266-0, 1989 with co-author Tung Au. Second Edition prepared for world wide web publication in 2000. This book develops a specific viewpoint in discussing the participants, the processes and the techniques of project management for construction. This viewpoint is that of owners who desire completion of projects in a timely, cost effective fashion. Some profound implications for the objectives and methods of project management result from this perspective The rules of project management began to take shape across corporate America around the time of World War II, and by the 1950s, they were guiding civil construction projects. This meant that the phases and tenets of managing a construction engineering project were now being applied to a variety of corporate projects. More and more details of managing a construction project can be done digitally (see software section below), and that trend is expected to grow. Mobile-friendly technology and software are set to play a major role in the field, as a younger workforce is more comfortable with the t Construction management (CM) is a professional service that uses specialized, project management techniques to oversee the planning, design, and construction of a project, from its beginning to its end. The purpose of CM is to control a project's time / delivery, cost and quality" sometimes referred to as a project management triangle or "triple constraints." CM is compatible with all project delivery systems, including design-bid-build, design-build, CM At-Risk and Public Private Partnerships