Foundations On Rock Engineering Practice Second

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this second edition of the successful foundations on rock presents an up to date practical reference book describing current engineering practice in the investigation design and construction of foundations on rock an extra chapter on tension foundations has been included the methods set out are readily applicable to high rise buildings bridges dams and structures subject to uplift and turning loads foundations on rock differs from the many texts and handbooks on soil foundations in that it focuses on the effect of geology on the stability and settlement of rock foundations while the intact rock may be strong defects in the rock such as faults joints and cavities and the deterioration of the rock with time will have a significant effect on foundation performance methods of detecting such defects are described and their implications for foundation design and treatment are elaborated

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the first edition of caroline whitbeck s ethics in engineering practice and research focused on the difficult ethical problems engineers encounter in their practice and in research in many ways these problems are like design problems they are complex often ill defined resolving them involves an iterative process of analysis and synthesis and there can be more than one acceptable solution in the second edition of this text dr whitbeck goes above and beyond by featuring more real life problems stating recent scenarios and laying the foundation of ethical concepts and reasoning this book offers a real world problem centered approach to engineering ethics using a rich collection of open ended case studies to develop skill in recognizing and addressing ethical issues

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this book explains engineering practice what engineers actually do in their work the first part explains how to find paid engineering work and prepare for an engineering career the second part explains the fundamentals of engineering practice including how to gain access to technical knowledge how to gain the willing collaboration of other people to make things happen and how to work safely in hazardous environments other chapters explain engineering aspects of project management missed in most courses how to create commercial value from engineering work and estimate costs and how to navigate cultural complexities successfully later chapters provide guidance on sustainability time management and avoiding the most common frustrations encountered by engineers at work this book has been written for engineering students graduates and novice engineers supervisors mentors and human resources professionals will also find the book helpful to guide early career engineers and assess their progress engineering schools will find the book helpful to help students prepare for professional internships and also for creating authentic practice and assessment exercises

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