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how to design construct commission and assess pipelines and related facilities this book offers straightforward practical techniques for pipeline design and construction making it an ideal professional reference training tool or comprehensive text the authors present the various elements that make up a single phase liquid and gas pipeline system including how to design construct commission and assess pipelines and the choice of materials for pipeline construction hinges upon factors such as pipeline design internal and external forces jointing and laying techniques durability impermeability and maintenance frequency quality certified materials techniques pipelines are designed to fit their operating use and conditions the steel must be certified as meeting industry and federal government quality requirements for toughness and strength this article deals only with the pipeline transportation of gaseous hydrogen and describes the characteristics of pipeline transportation pressure regulating equipment demand supply adjusting equipment and operational procedures 1 introduction this comprehensive book offers straightforward practical techniques for pipeline design and construction making it an ideal professional reference training tool or text for specialized college courses we introduce the pipeline construction by shield tunneling method in the deep underground called chuo central trunk line 23 km depth ave 40 50m max 65m that runs through the center of metropolitan tokyo for the natural gas supply while solving these problems the tie in of the project will be september 2009 1

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