



## cathodic protection design for buried steel pipes

By Abed, Shahad Fadhil

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | simulation of cathodic protection systems using MATLAB and surfer software | In this book we collect the information of cathodic protection for pipeline in practical fields, to obtain data base to understand and optimize the design which is made by simulation for the environmental factors and cathodic protection variables also soil resistivity and recording the anodes voltage and its related currents for the protection of underground pipelines. Modeling enables the designer to build cathodic protection for buried structure and predicting the places of anodes sites and its operating voltages and currents under various operational conditions, and comparing it with those in practices. The design of anode ground bed plays an important role since the current distribution and pipe potential will be affected by anode position with respect to the structure position. This book describes the effect of anode position and a comparison has been made with other different positions for the same pipe coated/uncoated in different soil conditions. Contours maps for potential distribution are also obtained. | Format: Paperback | Language/Sprache: english | 263 gr | 220x150x10 mm | 164 pp.



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-- **Natalie Abbott**

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