



Qanat Knowledge: Construction and Maintenance

By Ali Asghar Semsar Yazdi

Springer-Verlag GmbH Dez 2016, 2016. Buch. Condition: Neu. Neuware - This book offers a ready solution for those who wish to learn more about this fascinating part of our water history and makes accessible to the wider world the traditional knowledge gained from building and maintaining qanats for more than 2,500 years. There is much more here than a summary of the nature and distribution of qanats, and a more extensive journey through the philosophy, methods, tools, and terminology of qanat design and digging than previously assembled. Where does one begin to dig to ensure that the qanat tunnel will flow with water How are practical considerations of landscape factored into the design How are water quality and discharge measured How does excavation proceed through bedrock and unconsolidated soil and how is this knowledge of geology and pedology acquired How are vertical wells and tunnels excavated to maintain proper air supply, light, and water flow How does one deal with special problems like tunnel collapse, the accumulation of gasses and vapors, and the pooling of water during construction How are tools and gauges designed, maintained, and used How have qanats been incorporated into other structures like watermills, reservoirs, ice houses,...

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