

NUBIAN VAULT

THE TECHNIQUE OF BUILDING UNSUPPORTED VAULTED ROOFS FROM SUN-DRIED EARTH BRICKS (ADOBE) DATES BACK AT LEAST 3,500 YEARS, TO THE NUBIAN REGION OF THE UPPER NILE - HENCE THE TERM NUBIAN VAULT. THE CONTOUR OF THE VAULT APPROACHES THAT OF AN INVERTED CHAIN, OR CATENARY CURVE, THE IDEAL SHAPE FOR A VAULT UNDER COMPRESSION. THE OLDEST NUBIAN VAULT STRUCTURE STILL STANDING, BUILT OF EARTH BRICKS, DATES BACK TO 1300 BC. THE GRANARY VAULTS OF THE RAMASSEUM, OLD GOURNA, EGYPT. FOR CENTURIES, THIS AGE-OLD METHOD OF BUILDING HAS PERSISTED IN MANY SEMI-DESERT AND ARID REGIONS OF THE WORLD, WHERE TIMBER IS SCARCE. ONE EXAMPLE IS AFGHANISTAN.

ITS SPECIFICITY IS MARKED BY:

- THE USE OF RAW EARTH, A WIDELY AVAILABLE RAW MATERIAL, TO MAKE MORTAR AND SUN-DRIED BRICKS.
- THE LACK OF A TIMBER FRAMEWORK FOR CONSTRUCTION OF THE VAULT.

THE NUBIAN TECHNIQUE WAS REVIVED AND DISSEMINATED BY THE EGYPTIAN ARCHITECT HASSAN FATHY.



CONSTRUCTION OF NUBIAN VAULT

- BUILT THE SUPPORTING WALL. THE LOAD-BEARING WALLS WHICH SUPPORT THE VAULT ARE BUILT OF SUCCESSIVE COURSES OF LARGE BRICKS AND HAVE A MINIMUM THICKNESS OF 60 CM.
- LAY THE SUPPORT BEAMS OF THE VAULT TO OBTAIN THE NEEDED HEIGHT



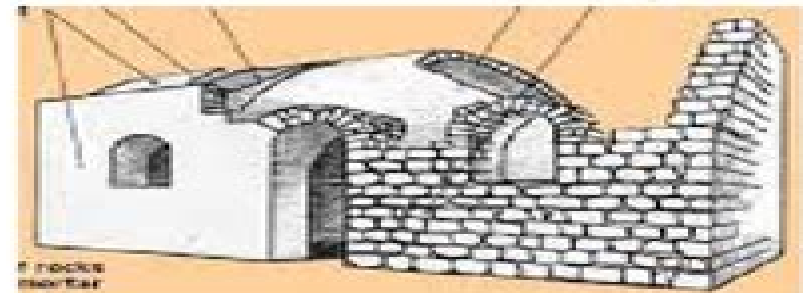
1. SUPPORTING WALL



2. SUPPORTING BEAM



- PLACE THE BRICKS IN ORDER TO F THE BASELINE OF THE VAULT.
- THE FIRST BRICK WILL REST DIRECTLY ON SUPPORTING WALL ON WHICH WILL BE FIXED WITH THE MORTAR.
- PLACE IN SUCCESSION THE OTHER BRICKS TO DEFINE THE FIRST ARC.
- TO CONTINUE THE CONSTRUCTION OF VAULT THE ARCS ARE POSITIONING ONE AFTER ONE.
- ONCE THE VAULT IS COMPLETED, THE MASONS BUILD 'BUTTRESSES' BY RAISING THE LOAD-BEARING WALLS BY 8 - 10 COURSES OF LARGE BRICKS.
- THE IDEAL SHAPE IS NOT A PERFECT SEMICIRCLE BUT INSTEAD SLIGHTLY ELLIPTICAL AT THE TOP, AS THIS SHAPE IS CLOSER TO THE IDEAL CATENARY CURVE WHERE ALL FORCES ARE IN COMPRESSION AND THE RESULTING VAULT IS AS STRONG AS IT CAN BE.
- TO PROTECT THE VAULT AGAINST RAIN AND EROSION, A TOUGH PLASTIC TARPULIN IS LAID OVER THE ROOF, AFTER IT HAS BEEN SMOOTHED DOWN AND GIVEN A SLIGHT SLOPE FOR DRAINING ANY RAIN TOWARDS THE GUTTERS



Nubian Vault Manual

John Sherman Porter



Nubian Vault Manual:

Construction Matters Stefan Holzer, Silke Langenberg, Clemens Knobling, Orkun Kasap, 2025-03-04 Construction History Construction Heritage Recent Construction Historiography Industrialization Engineering Sciences Building Materials Building Actors Construction History is still a fairly new and small but quickly evolving field The current trends in Construction History are well reflected in the papers of the present conference Construction History has strong roots in the historiography of the 19th century and the evolution of industrialization but the focus of our research field has meanwhile shifted notably to include more recent and also more distant histories as well This is reflected in these conference proceedings where 65 out of 148 contributed papers deal with the built heritage or building actors of the 20th or 21st century The conference also mirrors the wide spectrum of documentary and analytical approaches comprised within the discipline of Construction History Papers dealing with the technical and functional analysis of specific buildings or building types are complemented by other studies focusing on the lives and formation of building actors from laborers to architects and engineers from economical aspects to social and political implications on legal aspects and the strong ties between the history of construction and the history of engineering sciences The conference integrates perfectly into the daily work at the Institute for Preservation and Construction History at ETH Zurich Its two chairs the Chair for Building Archaeology and Construction History and the Chair for Construction Heritage and Preservation endeavor to cover the entire field and to bridge the gaps between the different approaches methodologies and disciplines between various centuries as well as technologies learning together and from each other The proceedings of 8ICCH give a representative picture of the state of the art in the field and will serve as a reference point for future studies *A Manual of Geography, Physical, Industrial, and Political* William Hughes, 1857 Moody's Industrial Manual, 1963 Manual of the Administration of the Madras Presidency, in Illustration of the Records of Government & the Yearly Administration Reports Madras (India : Presidency), 1885 **Essential Cob Construction** Anthony Dente, Michael G. Smith, Massey Burke, 2024-01-16 Setting the standard for modern cob construction from design engineering and building code compliance to sculpting beautiful structures Cob a mix of clay sand and straw is one of the most popular and well known natural building methods Yet cob is often difficult to permit and can be used in inappropriate ways due to a lack of sound engineering and design information Recent research and a newly developed building code promise to make cob building more accessible than ever Essential Cob Construction sets the new standard for cob construction Incorporating rigorous up to date engineering and building science and decades of practical lessons learned coverage includes Appropriate use of cob in different climates and contexts Thermal performance and moisture management Structural and architectural design considerations including fire and earthquake resistance data from extensive laboratory testing Hands on cob construction including mix design testing manual and mechanical mixing wall building strong connections with foundations roofs and other structural elements and finishing

options Building code development and the permitting process for cob Planning budgeting and quality control The complete Cob Construction Appendix of the International Residential Code Essential Cob Construction is required reading for engineers architects designers contractors and owner builders working with this ancient aesthetically pleasing low carbon building material **Extracts from the Technical Manual on the Ayyūbid Mint in Cairo** Andrew Stefan

Ehrenkreutz,1953 Moody's Manual of Investments John Sherman Porter,1963 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 Manual of Typography for College Students in Journalism and Newspaper Workers Victor R. Portman,1932

The Nubians of West Aswan Anne M. Jennings,1995 Doubleday, Page & Co.'s Geographical Manual and New Atlas Christopher Orlando Sylvester Mawson,1918 *Sustainable Architecture* Arian Mostaedi,2002 Non renewable and increasingly scarce natural resources have necessitated a totally new approach to the use of building materials This book looks at interesting contemporary architects who have realized this and are creating innovative designs that take into account the use of alternative energies adaptation to climatic factors vegetation and recycling This book argues that these designs represent a return to nature and a respect for the balance of the ecosystem Each proposal is accompanied by a large number of photographs construction details and plans **Earth Architecture** Ronald Rael,2009 The ground we walk on and grow crops in also just happens to be the most widely used building material on the planet Civilizations throughout time have used it to create stable warm low impact structures The world's first skyscrapers were built of mud brick Paul Revere Chairman Mao and Ronald Reagan all lived in earth houses at various points in their lives and several of the buildings housing Donald Judd's priceless collection at the Chinati Foundation in Marfa Texas are made of mud brick While the vast legacy of traditional and vernacular earthen construction has been widely discussed little attention has been paid to the contemporary tradition of earth architecture Author Ronald Rael founder of Eartharchitecture.org provides a history of building with earth in the modern era focusing particularly on projects constructed in the last few decades that use rammed earth mud brick compressed earth cob and several other interesting techniques Earth Architecture presents a selection of more than 40 projects that exemplify new creative uses of the oldest building material on the planet **BOOK JACKET** **Truth**,1882

Earth Construction Handbook Gernot Minke,2000 Updated and expanded translation of the German Lehmbau Handbuch

Human Osteology Margaret Cox,Simon Mays,2000-01-04 This advanced textbook provides the reader with an up to date account of recent developments and future potential in the study of human skeletons from both an archaeological and forensic context It is well illustrated comprehensive in its coverage and is divided into six sections for ease of reference encompassing such areas as palaeodemography juvenile health and growth disease and trauma normal skeletal variation biochemical and microscopic analyses and facial reconstruction Each chapter is written by a recognised specialist in the field

and includes in depth discussion of the reliability of methods with appropriate references and current and future research directions It is essential reading for all students undertaking osteology as part of their studies and will also prove a valuable reference for forensic scientists both in the field and the laboratory *English Mechanic and Mirror of Science* ,1875

Monthly Catalogue, United States Public Documents ,1980-03 *Youth's Companion* ,1894 **English Mechanic and World of Science** ,1875 **The Youth's Companion** Nathaniel Willis,Daniel Sharp Ford,1898 Includes music

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