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Block Moving ScenarioGross Movements; Fine Movement; Conclusion; CHAPTER 6. LIFTING BLOCKS; Introduction; Ramp Principles; A Practical Ramp; Simple Lifting Machines; Designing a Practical Raised Fulcrum Lifting Machine; Lever Details; Supporting Evidence; Forensic Analysis of the Mystery Tool; Miscellaneous Points; Time Estimate; Conclusion; CHAPTER 7. QUARRYING BLOCKS; Introduction; Limestone; Practical Limestone Information; Available Tools; Quarrying Blocks Using the Standard Methods; Alternative Quarrying Methods; Spear-Chisel Performance; Removing the Block; Miscellaneous Notes
First-Order Time Estimate to Build the Great PyramidDiscussion; Conclusion; CHAPTER 8. ADDITIONAL CONSTRUCTION DETAILS; Introduction; The Great Pyramid's Internal Design; Finishing the Casing Stones; Machining the Blocks; Squaring the Sides; Positioning the Top-Most Blocks; Order of Assembly; Wooden Tool Quantity; Available Wood; Additional Time Required for Minor Tasks; Second-Order Time Estimate to Build the Great Pyramid; Realistic Schedule; Conclusion; CHAPTER 9. SOCIAL CONSIDERATIONS; Introduction; Egyptian Psychology; Available Population Problem; Volunteer Workers; The Big Picture
A Question of TimingConclusion; CHAPTER 10. OTHER APPROACHES; Introduction; Cast In Place Concrete; Davidovits versus the Evidence; Kites; The Standard Theories: Lehner; The Standard Theories: Smith; Discussion; Conclusion; CHAPTER 11. CONCLUSION; The Approach; The Archaeological Evidence; Circumstantial Evidence; Other Ideas; Goals and Objectives; Numbers and Engineering; Conclusion; APPENDIX 1. TABLE OF 100 EGYPTIAN PYRAMIDS; APPENDIX 2. COURSE BY COURSE LAYOUT OF AN IDEAL GREAT PYRAMID BUILTWITH IDENTICAL BLOCKS; APPENDIX 3. TIME/MOTION ANALYSIS FOR LIFTING A BLOCK; Introduction
3-Person, 2-Stroke Lever Analysis

Sommario/riassunto

Work smarter, not harder? Most archaeologists feel that 25,000 workers spent 20 years building the Great Pyramid in Egypt over 4000 years ago. However, by closely examining the clues and artifacts left behind, and by assuming that the Egyptians were clever and intelligent, it is found that 10,000 workers could have built the Great Pyramid in about 385 days. This book, for high school readers and up, shows how, even at a more realistic, relaxed building schedule, the project could have been completed easily within four to six years by just 4000 workers. Gerard Fonte presents the construction of