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Autore	Cunningham Kevin <1966->
Titolo	Numerals // Kevin Cunningham
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Collana	The biography of numbers
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Nota di bibliografia	Includes bibliographical references (pages 61-62) and index.
Nota di contenuto	From fingers to clay tablets -- Ancient ways -- Oracle bones and monuments -- 1, 2, 3, 4, 5, 6, 7, 8, 9, and -- Leonardo's numbers.

2. Record Nr.	UNINA9911006994803321
Autore	Fickett Wildon
Titolo	Detonation : Theory and Experiment
Pubbl/distr/stampa	Newburyport, : Dover Publications, 2012
ISBN	9781523112036 1523112034 9780486140704 0486140709
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Altri autori (Persone)	DavisWilliam C. <1925->
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Soggetti	Detonation waves Engineering & Applied Sciences Applied Physics
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Nota di contenuto	DOVER BOOKS ON PHYSICS; Title Page; Copyright Page; Dedication; Table of Contents; Preface to the Dover Edition; Preface; Acknowledgments; 1 - INTRODUCTION; 1A. HISTORY; 1B. PLAN OF THE BOOK; 2 - THE SIMPLE THEORY; 2A. THE SIMPLEST THEORY; 2B. APPLICATION OF THE SIMPLEST THEORY; PRODUCT EQUATIONS OF STATE; 2C. THE ZELDOVICH-VON NEUMANN-DOERING MODEL; APPENDIX 2A. FORMULAS FOR DETONATION IN A POLYTROPIC GAS; 3 - EXPERIMENTAL TESTS OF THE SIMPLE THEORY; 3A. GASES; 3B. SOLIDS AND LIQUIDS; 4 - FLOW IN A REACTIVE MEDIUM; 4A. THE MODEL; 4B. MATERIAL PROPERTIES; 4C. REPRESENTATIVE FLOWS APPENDIX 4A. CHEMICAL REACTION EQUATIONS APPENDIX 4B. TEMPERATURE FROM INTERNAL ENERGY; APPENDIX 4C. EQUATIONS OF MOTION FOR SLAB, CYLINDER, AND SPHERE SYMMETRY; APPENDIX 4D. FROZEN AND EQUILIBRIUM SOUND SPEEDS AND ; APPENDIX 4E. SHOCK CHANGE EQUATION; 5 - STEADY DETONATION; 5A. ONE REACTION, > 0; 5B. TWO IRREVERSIBLE REACTIONS; 5C. ONE IRREVERSIBLE REACTION WITH A MOLE DECREMENT (PATHOLOGICAL DETONATION); 5D. TWO REVERSIBLE REACTIONS; 5E. MORE THAN TWO REACTIONS; 5F. INCLUSION OF TRANSPORT EFFECTS; 5G. SLIGHTLY DIVERGENT FLOW; 6

- NONSTEADY SOLUTION; 6A. STABILITY THEORY
6B. APPROXIMATE THEORIES 6C. FINITE-DIFFERENCE CALCULATIONS; 7
- STRUCTURE OF THE FRONT; 7A. OVERVIEW; 7B. MACROSCOPIC
PROPERTIES; 7C. DETAILS OF STRUCTURE; 7D. COMPARISON OF THEORY
AND EXPERIMENT; 7E. LIQUIDS AND SOLIDS; APPENDIX 7A:
INTERPRETATION OF SMEAR-CAMERA PHOTOGRAPHS; Bibliography;
Index

Sommario/riassunto

Comprehensive review of detonation explores the "simple theory" and experimental tests of the theory; flow in a reactive medium; steady detonation; the nonsteady solution; and the structure of the detonation front. 1979 edition.