

OF AUDIO EQUIPMENT. AN UPDATE FOR THE DIGITAL AGE OF LEO BERANEK'S CLASSIC 1954 BOOK ACOUSTICS PROVIDES DETAILED ACOUSTIC FUNDAMENTALS, ENABLING BETTER UNDERSTANDING OF COMPLEX DESIGN PARAMETERS, MEASUREMENT METHODS, AND DATA EXTENSIVE APPENDICES COVER FREQUENCY-RESPONSE SHAPES FOR LOUDSPEAKERS, MATHEMATICAL FORMULAS, AND CONVERSION FACTORS
ENGINEERING JOURNAL 1967

TECHNICAL REPORTS AWARENESS CIRCULAR : TRAC.
1987-11

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS 1973

TECHNICAL BOOK REVIEW INDEX 1979

NATURE 1896

JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS UNITED STATES. NATIONAL BUREAU OF STANDARDS 1963

ISOTOPES—ADVANCES IN RESEARCH AND APPLICATION:

2013 EDITION 2013-06-21 ISOTOPES—ADVANCES IN RESEARCH AND APPLICATION: 2013 EDITION IS A SCHOLARLYEDITIONS[?] BOOK THAT DELIVERS TIMELY, AUTHORITATIVE, AND COMPREHENSIVE INFORMATION ABOUT NITROGEN ISOTOPES. THE EDITORS HAVE BUILT ISOTOPES—ADVANCES IN RESEARCH AND APPLICATION: 2013 EDITION ON THE VAST INFORMATION DATABASES OF SCHOLARLYNEWS.[?] YOU CAN EXPECT THE INFORMATION ABOUT NITROGEN ISOTOPES IN THIS BOOK TO BE DEEPER THAN WHAT YOU CAN ACCESS ANYWHERE ELSE, AS WELL AS CONSISTENTLY RELIABLE, AUTHORITATIVE, INFORMED, AND RELEVANT. THE CONTENT OF ISOTOPES—ADVANCES IN RESEARCH AND APPLICATION: 2013 EDITION HAS BEEN PRODUCED BY THE WORLD'S LEADING SCIENTISTS, ENGINEERS, ANALYSTS, RESEARCH INSTITUTIONS, AND COMPANIES. ALL OF THE CONTENT IS FROM PEER-REVIEWED SOURCES, AND ALL OF IT IS WRITTEN, ASSEMBLED, AND EDITED BY THE EDITORS AT SCHOLARLYEDITIONS[?] AND AVAILABLE EXCLUSIVELY FROM US. YOU NOW HAVE A SOURCE YOU CAN CITE WITH AUTHORITY, CONFIDENCE, AND CREDIBILITY. MORE INFORMATION IS AVAILABLE AT [HTTP://WWW.SCHOLARLYEDITIONS.COM/](http://www.ScholarlyEditions.com/).

GOVERNMENT-WIDE INDEX TO FEDERAL RESEARCH & DEVELOPMENT REPORTS 1965-02

APPLIED MECHANICS REVIEWS 1970

THE UNITED STATES DEPARTMENT OF COMMERCE PUBLICATIONS, CATALOG AND INDEX SUPPLEMENT UNITED STATES. DEPARTMENT OF COMMERCE 1972

TRADE AND INDUSTRIAL EDUCATION 1972

FRANK L. DI MAGGIO SYMPOSIUM ON CONSTITUTIVE MODELING OF GEOMATERIALS JUNE 3-5 2002 HOE I. LING 2003-01-23 SCIENTISTS INVOLVED WITH GEOMATERIAL MODELING HONOR THE RETIREMENT OF DISTINGUISHED COLLEAGUE FRANK L. DIMAGGIO (CIVIL ENGINEERING AND ENGINEERING MECHANICS, COLUMBIA U.) BY OFFERING CONTRIBUTIONS REPRESENTING RECENT ADVANCES IN THE MODELING OF SAND, CLAY, AND CONCRETE. DIMAGGIO CONTRIBUTED TO THE D

KEY-WORDS-IN-CONTEXT TITLE INDEX 1962

TECHNOLOGY FOR LARGE SPACE SYSTEMS 1988

THE CONFLUENT HYPERGEOMETRIC FUNCTION HERBERT BUCHHOLZ 2013-11-22 THE SUBJECT OF THIS BOOK IS THE

HIGHER TRANSCENDENTAL FUNCTION KNOWN AS THE CONFLUENT HYPERGEOMETRIC FUNCTION. IN THE LAST TWO DECADES THIS FUNCTION HAS TAKEN ON AN EVER INCREASING SIGNIFICANCE BECAUSE OF ITS USE IN THE APPLICATION OF MATHEMATICS TO PHYSICAL AND TECHNICAL PROBLEMS. THERE IS NO DOUBT THAT THIS TREND WILL CONTINUE UNTIL THE GENERAL THEORY OF CONFLUENT HYPERGEOMETRIC FUNCTIONS BECOMES FAMILIAR TO THE MAJORITY OF PHYSICISTS IN MUCH THE SAME WAY AS THE CYLINDER FUNCTIONS, WHICH WERE PREVIOUSLY LESS WELL KNOWN, ARE NOW USED IN MANY ENGINEERING AND PHYSICAL PROBLEMS. THIS BOOK IS INTENDED TO FURTHER THIS DEVELOPMENT. THE IMPORTANT PRACTICAL SIGNIFICANCE OF THE FUNCTIONS WHICH ARE TREATED HARDLY DEMANDS AN INVOLVED DISCUSSION SINCE THEY INCLUDE, AS SPECIAL CASES, A NUMBER OF SIMPLER SPECIAL FUNCTIONS WHICH HAVE LONG BEEN THE EVERYDAY TOOL OF THE PHYSICIST. IT IS SUFFICIENT TO MENTION THAT THESE INCLUDE, AMONG OTHERS, THE LOGARITHMIC INTEGRAL, THE INTEGRAL SINE AND COSINE, THE ERROR INTEGRAL, THE FRESNEL INTEGRAL, THE CYLINDER FUNCTIONS AND THE CYLINDER FUNCTION IN PARABOLIC CYLINDRICAL COORDINATES. FOR ANYONE WHO PUTS FORTH THE EFFORT TO STUDY THE CONFLUENT HYPERGEOMETRIC FUNCTION IN MORE DETAIL THERE IS THE INESTIMABLE ADVANTAGE OF BEING ABLE TO UNDERSTAND THE PROPERTIES OF OTHER FUNCTIONS DERIVABLE FROM IT. THIS GENERAL POINT OF VIEW IS PARTICULARLY USEFUL IN CONNECTION WITH SERIES EXPANSIONS VALID FOR VALUES OF THE ARGUMENT NEAR ZERO OR INFINITY AND IN CONNECTION WITH THE VARIOUS INTEGRAL REPRESENTATIONS.

TECHNOLOGY FOR LARGE SPACE SYSTEMS: A BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 20) UNITED STATES. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. SCIENTIFIC AND TECHNICAL INFORMATION DIVISION 1989

PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS EVANGELOS J. SAPOUNZAKIS 2021-12-25 THIS BOOK PRESENTS THE SELECT PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS (ICOVP 2019) HELD IN CRETE, GREECE. THE VOLUME BRINGS TOGETHER CONTRIBUTIONS FROM RESEARCHERS WORKING ON VIBRATION RELATED PROBLEMS IN A WIDE VARIETY OF ENGINEERING DISCIPLINES SUCH AS MECHANICAL ENGINEERING, WIND AND EARTHQUAKE ENGINEERING, NUCLEAR ENGINEERING, AERONAUTICS, ROBOTICS, AND TRANSPORT SYSTEMS. THE FOCUS IS ON LATEST DEVELOPMENTS AND CUTTING-EDGE METHODS IN WAVE MECHANICS AND VIBRATIONS, AND INCLUDES THEORETICAL, EXPERIMENTAL, AS WELL AS APPLIED STUDIES. THE RANGE OF TOPICS AND THE UP-TO-DATE RESULTS COVERED IN THIS VOLUME MAKE THIS INTERESTING FOR STUDENTS, RESEARCHERS, AND PROFESSIONALS ALIKE.

OCEANOGRAPHY DEFENSE DOCUMENTATION CENTER (U.S.) 1969

STAR 1964-11

PROPAGATION OF SOUND IN AIR JOHN W. WESCOTT 1965

THIS BIBLIOGRAPHY CONTAINS SEVERAL THOUSAND ABSTRACTS FROM THE UNCLASSIFIED LITERATURE ON THE PROPAGATION OF SOUND IN AIR. THE SUBJECT IS TREATED IN DEPTH FOR THE YEARS 1929 TO 1963. SOME ABSTRACTS

ON EARLIER WORKS OF LASTING INTEREST AND MANY ABSTRACTS FROM ENGLISH TRANSLATIONS OF FOREIGN JOURNALS ARE INCLUDED. THE ABSTRACTS ARE GROUPED ACCORDING TO SUBJECT MATTER. SUBJECT AND AUTHOR INDEXES ARE FURNISHED. ACCESSIONS DOCUMENT (AD AND EARLIER ATI) NUMBERS USED BY BOTH THE DEFENSE DOCUMENTATION CENTER (FORMERLY ASTIA) AND THE OFFICE OF TECHNICAL SERVICES (OTS) ARE FURNISHED WHEREVER POSSIBLE. (AUTHOR).

NASA TECHNICAL PAPER 1986

PHYSICS: PRINCIPLES & PROBLEMS, STUDENT EDITION
McGraw-Hill Education 2016-06-17

WAVE-MECHANICS ARNOLD SOMMERFELD 1930

WAVES AND OSCILLATIONS R. N. CHAUDHURI 2001 THIS BOOK EXPLAINS THE VARIOUS DIMENSIONS OF WAVES AND OSCILLATIONS IN A SIMPLE AND SYSTEMATIC MANNER. IT IS AN UNIQUE ATTEMPT AT PRESENTING A SELF-CONTAINED ACCOUNT OF THE SUBJECT WITH STEP-BY-STEP SOLUTIONS OF A LARGE NUMBER OF PROBLEMS OF DIFFERENT TYPES. THE BOOK WILL BE OF GREAT HELP NOT ONLY TO UNDERGRADUATE STUDENTS, BUT ALSO TO THOSE PREPARING FOR VARIOUS COMPETITIVE EXAMINATIONS.

ENVIRONMENTAL ENGINEERING AND SANITATION JOSEPH A.

SALVATO 1982-03-23 APPLIES THE PRINCIPLES OF SANITARY SCIENCE AND ENGINEERING TO SANITATION AND ENVIRONMENTAL HEALTH. EXAMINES THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF SANITATION PLANTS AND STRUCTURES. GIVES STATE-OF-THE-ART INFORMATION ON ENVIRONMENTAL FACTORS ASSOCIATED WITH CHRONIC AND NON-INFECTIOUS DISEASES, ENVIRONMENTAL ENGINEERING PLANNING AND IMPACT ANALYSIS, WASTE MANAGEMENT AND CONTROL, FOOD SANITATION, ADMINISTRATION OF HEALTH AND SANITATION PROGRAMS, ACID RAIN, NOISE CONTROL, AND CAMPGROUND SANITATION. INCLUDES UPDATED AND EXPANDED COVERAGE OF ALTERNATE ON-SITE SEWAGE DISPOSAL. WATER RECLAMATION AND RE-USE, PROTECTION OF GROUNDWATER QUALITY, AND CONTROL AND MANAGEMENT OF HAZARDOUS WASTE.

AERONAUTICAL ENGINEERING: A CUMULATIVE INDEX TO A CONTINUING BIBLIOGRAPHY (SUPPLEMENT 300) 1994

JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS 1963

SOLID ACOUSTIC WAVES AND VIBRATION: THEORY AND APPLICATIONS LI-FENG GE 2021-09-23

SOLID ACOUSTIC WAVES AND VIBRATION: THEORY AND APPLICATIONS IS AN EXCITING NEW BOOK THAT TAKES READERS INSIDE A FASCINATING SUBJECT. IT IS CHARMING THAT THERE IS A COMPLEX AND DELICATE STRUCTURE IN CHARACTERISTIC VALUES, WHICH IS REVEALED BY INTRODUCING A CONCEPTUAL SYSTEM INCLUDING SPACE OPERATOR, SPACE-TIME VARIABLE, REFERENCE POISSON'S RATIO, ETC., AND DEVELOPING THE ANALYTICAL MODELS FOR ALL LIMITING CASES. THE DISPERSION CURVES OF WAVES IN AN ELASTIC PLATE ARE DETERMINED COMPLETELY, AND A SYSTEMATIC AND CONCISE DESCRIPTION OF THE FUNDAMENTAL THEORY OF THIS SUBJECT IS GIVEN. AS MEMS AND NEMS TECHNOLOGY DEVELOPS, A NUMBER OF NEW ISSUES PRESENTS, SUCH AS THE EFFECTS OF RESIDUAL STRESS, THIN-FILM, AIR CAPTURED IN MICRO-AIR-

GAPS AND COATING ON THE SYSTEM, WHICH MAKE THE PROBLEM COMPLICATED AND SPARK DEBATES. MICRO-DIAPHRAGMS ARE MODELED BY A PLATE IN TENSION AND MOUNTED ON AIR-SPRING, A GENERAL TDK EQUATION OF VIBRATION OF PLATES, INCLUDING FREE, FORCED AND DAMPED VIBRATIONS, AND ITS SOLUTIONS ARE DEVELOPED. THE LOADING EFFECT OF COATING IS MODELED BY A MASS LOAD; A MICRO-LOAD THEORY IS PRESENTED. THIS BOOK IS A SUMMARY OF THE AUTHOR'S LONG-TERM RESEARCH ON ELECTROMECHANICAL TRANSDUCERS AND THESE RELATED ISSUES, AND THEY PROVIDE AN EXCELLENT DESCRIPTION COMBINING THEORY AND APPLICATION. THE PRINCIPLE OF ELECTROMECHANICAL TRANSDUCERS, WHICH ACHIEVE THE CONVERSION BETWEEN MECHANICAL AND ELECTRICAL ENERGY, OCCUPYING A PARTICULARLY IMPORTANT POSITION IN THE FIELD OF ROBOTICS AND INTELLIGENT MACHINES, IS ELUCIDATED BY INTRODUCING THE CONCEPTS OF SPACE-TIME OPERATOR, COMPLEX TRANSFORMATION FACTOR, INVERSION IMPEDANCE, ETC., AND AN UNFILED EQUIVALENT CIRCUIT IS PRESENTED. THE APPLICATIONS IN MICROMACHINED CAPACITIVE ULTRASONIC TRANSDUCERS (MCUTs, CMUTs) FOR BIOMEDICAL IMAGING AND ULTRASONIC MASS RESONATORS (MUMRs) FOR BIOCHEMICAL SENSING, INCLUDING PLATE-TYPE, BEAM-TYPE, NANOWIRE, BULK-WAVE, LAW AND SAW DELAY-LINE ULTRASONIC RESONATORS ARE DESCRIBED. THIS INTERDISCIPLINARY BOOK WILL BE INCREASINGLY ATTRACTIVE AS MEMS AND NEMS TECHNOLOGY DEVELOPS.

THE STERLING BOOK OF ESSENCE OF INDIAN THOUGHT
BALDEO SAHAI "INDIA IS THE CRADLE OF THE HUMAN RACE, THE BIRTHPLACE OF HUMAN SPEECH, THE MOTHER OF HISTORY, THE GRANDMOTHER OF LEGEND AND GREAT GRANDMOTHER OF TRADITION. MARK TWAIN ESSENCE OF INDIAN THOUGHT IS ABOUT THE CONTRIBUTION OF INDIA TO THE THOUGHTS, CULTURES AND TRADITIONS OF THE WORLD. THE DEBT OWED BY THE WEST TO OTHER CIVILISATIONS AND TO INDIA IN PARTICULAR, GOES BACK TO THE EARLIEST EPOCH OF THE 'WESTERN' SCIENTIFIC TRADITION, THE AGE OF THE CLASSICAL GREEKS AND CONTINUED UP UNTIL THE DAWN OF THE MODERN ERA, THE RENAISSANCE WHEN EUROPE WAS AWAKENING FROM ITS DARK AGES. THIS BOOK IS AN HUMBLE ATTEMPT TO PUT TOGETHER SOME OF THE ASPECTS OF INDIA'S CONTRIBUTION TO THE THOUGHTS OF THE WORLD. UPANISHADS AND YOGA BOTH SPEAK OF UNIVERSAL VALUES AND CONSTITUTE THE HERITAGE OF ALL PEOPLES. OTHER SUBJECTS LIKE AYURVEDA, KAMASUTRA AND VARIOUS FORMS OF INDIAN ARTS-PAINTING, MUSIC AND DANCE HAVE BEEN ANALYSED AND DISCUSSED ELABORATELY. THE BOOK DRAWS ATTENTION TO THE INDIAN ART OF STORYTELLING, THE ORIGIN OF MATHEMATICS, INCLUDING THE ZERO AND DECIMAL SYSTEM.

AMERICAN SCIENTIST 1942

U.S. GOVERNMENT RESEARCH & DEVELOPMENT REPORTS
1967

VIBRATIONS AND WAVES A.P. FRENCH 2017-12-21 THE M.I.T. INTRODUCTORY PHYSICS SERIES IS THE RESULT OF A PROGRAM OF CAREFUL STUDY, PLANNING, AND DEVELOPMENT THAT BEGAN IN 1960. THE EDUCATION RESEARCH CENTER AT THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (FORMERLY THE SCIENCE TEACHING CENTER) WAS ESTABLISHED TO STUDY THE PROCESS OF INSTRUCTION, AIDS

THERETO, AND THE LEARNING PROCESS ITSELF, WITH SPECIAL REFERENCE TO SCIENCE TEACHING AT THE UNIVERSITY LEVEL. GENEROUS SUPPORT FROM A NUMBER OF FOUNDATIONS PROVIDED THE MEANS FOR ASSEMBLING AND MAINTAINING AN EXPERIENCED STAFF TO CO-OPERATE WITH MEMBERS OF THE INSTITUTE'S PHYSICS DEPARTMENT IN THE EXAMINATION, IMPROVEMENT, AND DEVELOPMENT OF PHYSICS CURRICULUM MATERIALS FOR STUDENTS PLANNING CAREERS IN THE SCIENCES. AFTER CAREFUL ANALYSIS OF OBJECTIVES AND THE PROBLEMS INVOLVED, PRELIMINARY VERSIONS OF TEXTBOOKS WERE PREPARED, TESTED THROUGH CLASSROOM USE AT M.I.T. AND OTHER INSTITUTIONS, RE-EVALUATED, REWRITTEN, AND TRIED AGAIN. ONLY THEN WERE THE FINAL MANUSCRIPTS UNDERTAKEN.

VIBRATIONS AND WAVES GEORGE C. KING 2013-03-15
THIS INTRODUCTORY TEXT EMPHASISES PHYSICAL PRINCIPLES, RATHER THAN THE MATHEMATICS. EACH TOPIC BEGINS WITH A DISCUSSION OF THE PHYSICAL CHARACTERISTICS OF THE MOTION OR SYSTEM. THE MATHEMATICS IS KEPT AS CLEAR AS POSSIBLE, AND INCLUDES ELEGANT MATHEMATICAL DESCRIPTIONS WHERE POSSIBLE. DESIGNED TO PROVIDE A LOGICAL DEVELOPMENT OF THE SUBJECT, THE BOOK IS DIVIDED INTO TWO SECTIONS, VIBRATIONS FOLLOWED BY WAVES. A PARTICULAR FEATURE IS THE INCLUSION OF MANY EXAMPLES, FREQUENTLY DRAWN FROM EVERYDAY LIFE, ALONG WITH MORE CUTTING-EDGE ONES. EACH CHAPTER INCLUDES PROBLEMS RANGING IN DIFFICULTY FROM SIMPLE TO CHALLENGING AND INCLUDES HINTS FOR SOLVING PROBLEMS. NUMEROUS WORKED EXAMPLES INCLUDED THROUGHOUT THE BOOK.