

# FUNDAMENTALS OF STRUCTURAL DYNAMICS CRAIG SOLUTIONS BING

DYNAMICS OF STRUCTURES STRUCTURAL DYNAMICS STRUCTURAL DYNAMICS FOR STRUCTURAL ENGINEERS ELEMENTS OF STRUCTURAL DYNAMICS DYNAMICS OF STRUCTURES: SECOND EDITION DYNAMICS OF STRUCTURES CONCEPTUAL THEORIES IN STRUCTURAL DYNAMICS ELEMENTS OF STRUCTURAL DYNAMICS STRUCTURAL DYNAMICS STRUCTURAL DYNAMICS PROBABILISTIC STRUCTURAL DYNAMICS STRUCTURAL DYNAMICS ESSENTIALS OF STRUCTURAL DYNAMICS STRUCTURAL DYNAMICS WITH APPLICATIONS IN EARTHQUAKE AND WIND ENGINEERING DYNAMICS IN THE PRACTICE OF STRUCTURAL DESIGN STRUCTURAL DYNAMICS AND STATIC NONLINEAR ANALYSIS FROM THEORY TO APPLICATION DYNAMICS AND CONTROL OF STRUCTURES FUNDAMENTALS OF STRUCTURAL DYNAMICS STRUCTURAL DYNAMICS IN ENGINEERING DESIGN BASIC STRUCTURAL DYNAMICS ANIL K. CHOPRA MARIO PAZ GARY C. HART DEBASISH ROY J. HUMAR J. HUMAR FARZAD HEJAZI GLEN V. BERG YONG BAI G.I. SCHUELLER YU-KWENG LIN EINAR N. STRØMMER HECTOR ESTRADA KONSTANTIN MESKOURIS OSCAR SIRCOVICH-SAAZ BELGASMIA, MOURAD WODEK K. GAWRONSKI ZHIHUI ZHOU NUNO M. M. MAIA JAMES C. ANDERSON

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THE FIFTH EDITION OF STRUCTURAL DYNAMICS THEORY AND COMPUTATION IS THE COMPLETE AND COMPREHENSIVE TEXT IN THE FIELD IT PRESENTS MODERN METHODS OF ANALYSIS AND TECHNIQUES ADAPTABLE TO COMPUTER PROGRAMMING CLEARLY AND EASILY THE BOOK IS IDEAL AS A TEXT FOR ADVANCED UNDERGRADUATES OR GRADUATE STUDENTS TAKING A FIRST COURSE IN STRUCTURAL DYNAMICS IT IS ARRANGED IN SUCH A WAY THAT IT CAN BE USED FOR A ONE OR TWO SEMESTER COURSE OR SPAN THE UNDERGRADUATE AND GRADUATE LEVELS IN ADDITION THIS TEXT WILL SERVE THE PRACTICING ENGINEER AS A PRIMARY REFERENCE THE TEXT DIFFERS FROM THE STANDARD APPROACH OF OTHER PRESENTATIONS IN WHICH TOPICS ARE ORDERED BY THEIR MATHEMATICAL COMPLEXITY THIS TEXT IS ORGANIZED BY THE TYPE OF STRUCTURAL MODELING THE AUTHOR SIMPLIFIES THE SUBJECT BY PRESENTING A SINGLE DEGREE OF FREEDOM SYSTEM IN THE FIRST CHAPTERS THEN MOVES TO SYSTEMS WITH MANY DEGREES OF FREEDOM IN THE FOLLOWING CHAPTERS FINALLY THE TEXT MOVES TO APPLICATIONS OF THE FIRST CHAPTERS AND SPECIAL TOPICS IN STRUCTURAL DYNAMICS NEW IN THIS EDITION PROBLEMS REWORKED FOR SAP2000 STEP BY STEP EXAMPLES OF HOW TO USE SAP2000 FOR EVERY APPLICATION OF STRUCTURAL DYNAMICS INCLUSION OF COMPANION SITE EXTRAS SPRINGER.COM 2004 WITH THREE LEARNING AIDS SAP2000 STUDENT VERSION SOURCE CODE FOR THE AUTHOR'S EDUCATIONAL PROGRAMS IN STRUCTURAL DYNAMICS SO THAT THE RESULTS OF CHANGED PARAMETERS CAN BE SEEN STEP BY STEP AND THE COMPILER EXECUTABLE FILES FOR THE AUTHOR'S EDUCATIONAL PROGRAMS THREE EARTHQUAKE ENGINEERING CHAPTERS UPDATED TO THE LATEST ICC BUILDING CODES MATERIALS REARRANGED SO THAT THEORY AND DYNAMIC ANALYSIS PRECEDE APPLICATIONS AND SPECIAL TOPICS FACILITATING USING THE BOOK SEQUENTIALLY COMPLETE INSTRUCTIONS PROVIDED TO ADVANCED TOPICS AS FOUNDATION FOR FURTHER STUDY THIS TEXT IS ESSENTIAL FOR CIVIL ENGINEERING STUDENTS PROFESSIONAL CIVIL ENGINEERS WILL FIND IT AN IDEAL REFERENCE

A CLEAR STRAIGHTFORWARD PRESENTATION OF THE THEORY OF STRUCTURAL DYNAMICS ILLUSTRATED WITH RICH EXAMPLES DRAWN FROM THE AUTHORS WORK IN EXTENDING THE THEORY OF STRUCTURAL DYNAMICS TO DEVELOP COMPUTER MODELS TO ESTIMATE BUILDING PERFORMANCE THIS COMPREHENSIBLE BOOK PRESENTS STRUCTURAL ENGINEERS WITH THE KEY ELEMENTS OF STRUCTURAL DYNAMICS

STRUCTURAL DYNAMICS IS A SUBSET OF STRUCTURAL ANALYSIS WHICH COVERS THE BEHAVIOR OF STRUCTURES SUBJECTED TO DYNAMIC LOADING THE SUBJECT HAS SEEN RAPID GROWTH AND ALSO CHANGE IN HOW THE BASIC CONCEPTS CAN BE INTERPRETED FOR INSTANCE THE CLASSICAL NOTIONS OF DISCRETIZING THE OPERATOR OF A

DYNAMIC STRUCTURAL MODEL HAVE GIVEN WAY TO A SET THEORETIC FUNCTION SPACE BASED FRAMEWORK WHICH IS MORE CONDUCTIVE TO IMPLEMENTATION WITH A COMPUTER THIS MODERN PERSPECTIVE AS ADOPTED IN THIS BOOK IS ALSO HELPFUL IN PUTTING TOGETHER THE VARIOUS TOOLS AND IDEAS IN A MORE INTEGRATED STYLE ELEMENTS OF STRUCTURAL DYNAMICS A NEW PERSPECTIVE IS DEVOTED TO COVERING THE BASIC CONCEPTS IN LINEAR STRUCTURAL DYNAMICS WHILST EMPHASIZING THEIR MATHEMATICAL MOORINGS AND THE ASSOCIATED COMPUTATIONAL ASPECTS THAT MAKE THEIR IMPLEMENTATION IN SOFTWARE POSSIBLE KEY FEATURES EMPLOYS A NOVEL TOP DOWN APPROACH TO STRUCTURAL DYNAMICS CONTAINS AN INSIGHTFUL TREATMENT OF THE COMPUTATIONAL ASPECTS INCLUDING THE FINITE ELEMENT METHOD THAT TRANSLATE INTO NUMERICAL SOLUTIONS OF THE DYNAMIC EQUATIONS OF MOTION CONSISTENTLY TOUCHES UPON THE MODERN MATHEMATICAL BASIS FOR THE THEORIES AND APPROXIMATIONS INVOLVED ELEMENTS OF STRUCTURAL DYNAMICS A NEW PERSPECTIVE IS A HOLISTIC TREATISE ON STRUCTURAL DYNAMICS AND IS AN IDEAL TEXTBOOK FOR SENIOR UNDERGRADUATE AND GRADUATE STUDENTS IN MECHANICAL AEROSPACE AND CIVIL ENGINEERING DEPARTMENTS THIS BOOK ALSO FORMS A USEFUL REFERENCE FOR RESEARCHERS AND ENGINEERS IN INDUSTRY

THIS MAJOR TEXTBOOK PROVIDES COMPREHENSIVE COVERAGE OF THE ANALYTICAL TOOLS REQUIRED TO DETERMINE THE DYNAMIC RESPONSE OF STRUCTURES THE TOPICS COVERED INCLUDE FORMULATION OF THE EQUATIONS OF MOTION FOR SINGLE AS WELL AS MULTI DEGREE OF FREEDOM DISCRETE SYSTEMS USING THE PRINCIPLES OF BOTH VECTOR MECHANICS AND ANALYTICAL MECHANICS FREE VIBRATION RESPONSE DETERMINATION OF FREQUENCIES AND MODE SHAPES FORCED VIBRATION RESPONSE TO HARMONIC AND GENERAL FORCING FUNCTIONS DYNAMIC ANALYSIS OF CONTINUOUS SYSTEMS AND WAVE PROPAGATION ANALYSIS THE KEY ASSETS OF THE BOOK INCLUDE COMPREHENSIVE COVERAGE OF BOTH THE TRADITIONAL AND STATE OF THE ART NUMERICAL TECHNIQUES OF RESPONSE ANALYSIS SUCH AS THE ANALYSIS BY NUMERICAL INTEGRATION OF THE EQUATIONS OF MOTION AND ANALYSIS THROUGH FREQUENCY DOMAIN THE LARGE NUMBER OF ILLUSTRATIVE EXAMPLES AND EXERCISE PROBLEMS ARE OF GREAT ASSISTANCE IN IMPROVING CLARITY AND ENHANCING READER COMPREHENSION THE TEXT AIMS TO BENEFIT STUDENTS AND ENGINEERS IN THE CIVIL MECHANICAL AND AEROSPACE SECTORS

THE BOOK IS AN EXCELLENT TEXT AS WELL AS A PRACTICAL REFERENCE FOR CIVIL MECHANICAL AND AEROSPACE ENGINEERS AND HAS BEEN IDENTIFIED AS A WORK THAT IS ADMIRABLE IN ITS LUCIDITY AND COMPLETE IN ITSELF A UNIQUE FEATURE OF THE TEXT IS ITS SPECIAL EMPHASIS ON THE APPLICATION OF NUMERICAL METHODS IN THE ANALYSIS OF DISCRETE SYSTEMS IT PROVIDES COVERAGE OF BOTH THE TRADITIONAL AND STATE OF THE ART NUMERICAL TECHNIQUES OF RESPONSE ANALYSIS SUCH AS ANALYSIS BY NUMERICAL INTEGRATION OF THE EQUATIONS OF MOTION AND ANALYSIS THROUGH FREQUENCY DOMAIN A LARGE NUMBER OF SOLVED EXAMPLES AND EXERCISE PROBLEMS ADD TO CLARITY AND READER COMPREHENSION

THIS BOOK DISCUSSES THE CONCEPTUAL THEORY OF STRUCTURAL DYNAMICS USING SIMPLIFIED METHODS AND CLEAR CONCISE EXPLANATIONS IT ILLUSTRATES ALL THE HYPOTHESES IN A SIMPLE AND EFFECTIVE WAY AND DESCRIBES IN DETAIL THE DERIVATION OF ALL RELATED FORMULATIONS FURTHER COMPREHENSIVE STEP BY STEP EXPLANATIONS COMBINED WITH CONCEPTUAL DERIVATIONS DRAWINGS AND FIGURES ALLOW READERS TO GRASP ALL THE ANALYTICAL FORMULATIONS RELATED TO THE DYNAMICS OF STRUCTURES COVERING FREE AND FORCED VIBRATIONS OF SINGLE AND MULTI DEGREE OF FREEDOM SYSTEMS REPRESENTED AS STRUCTURE SUBJECTED TO DYNAMIC LOAD THE BOOK ALSO EXPLORES THE MOST COMMON TYPES OF DYNAMIC LOADS APPLICABLE TO STRUCTURES SUCH AS HARMONIC LOADS IMPACT LOADS AND EARTHQUAKES PRESENTING RELEVANT DETAILS DERIVATIONS AND EFFECTIVE PROBLEMS TO EXPLAIN THE CONCEPT FOR VARIOUS CONDITIONS IN ADDITION EACH CHAPTER PROVIDES EXAMPLES AT DIFFERENT LEVELS TO HELP STUDENTS RESEARCHERS AND ENGINEERS GAIN A BETTER UNDERSTANDING OF THE TOPICS BETTER AND INCLUDES NUMEROUS REAL WORLD PROBLEMS TO FAMILIARIZE READERS WITH THE CHALLENGES RELATED TO STRUCTURAL ENGINEERING

WRITTEN BY TWO EXPERTS ACROSS MULTIPLE DISCIPLINES THIS IS THE PERFECT REFERENCE ON STRUCTURAL DYNAMICS FOR VETERAN ENGINEERS AND INTRODUCTION TO THE FIELD FOR ENGINEERING STUDENTS ACROSS MANY DISCIPLINES OF ENGINEERING DYNAMIC PROBLEMS OF STRUCTURES ARE A PRIMARY CONCERN CIVIL ENGINEERS MECHANICAL ENGINEERS AIRCRAFT ENGINEERS OCEAN ENGINEERS AND ENGINEERING STUDENTS ENCOUNTER THESE PROBLEMS EVERY DAY AND IT IS UP TO THEM SYSTEMATICALLY TO GRASP THE BASIC CONCEPTS CALCULATION PRINCIPLES AND CALCULATION METHODS OF STRUCTURAL DYNAMICS THIS BOOK FOCUSES ON THE BASIC THEORIES AND CONCEPTS AS WELL AS THE APPLICATION AND BACKGROUND OF THEORIES AND CONCEPTS IN ENGINEERING SINCE THE BASIC PRINCIPLES AND METHODS OF DYNAMICS ARE APPLIED TO OTHER VARIOUS ENGINEERING FIELDS THIS BOOK CAN ALSO BE USED AS A REFERENCE FOR PRACTICING ENGINEERS IN THE FIELD ACROSS MANY MULTIPLE DISCIPLINES AND FOR UNDERGRADUATE AND GRADUATE STUDENTS IN OTHER MAJORS AS WELL THE MAIN CONTENTS INCLUDE BASIC THEORY OF DYNAMICS ESTABLISHMENT OF EQUATION OF MOTION SINGLE DEGREE OF FREEDOM SYSTEMS MULTI DEGREE OF FREEDOM SYSTEMS DISTRIBUTED PARAMETER SYSTEMS STOCHASTIC STRUCTURAL VIBRATIONS RESEARCH PROJECTS OF STRUCTURAL DYNAMICS AND STRUCTURAL DYNAMICS OF MARINE PIPELINE AND RISERS WHETHER FOR THE VETERAN ENGINEER OR STUDENT THIS IS A MUST HAVE FOR ANY SCIENTIFIC OR ENGINEERING LIBRARY USEFUL FOR STUDENTS AND VETERAN

ENGINEERS AND SCIENTISTS ALIKE THIS IS THE ONLY BOOK COVERING THESE IMPORTANT ISSUES FACING ANYONE WORKING WITH COASTAL MODELS AND OCEAN COASTAL AND CIVIL ENGINEERING IN THIS AREA

THIS BOOK CONTAINS SOME NEW DEVELOPMENTS IN THE AREA OF STRUCTURAL DYNAMICS IN GENERAL IT REFLECTS THE RECENT EFFORTS OF SEVERAL AUSTRIAN RESEARCH GROUPS DURING THE YEARS 1985 1990 THE CONTENTS OF THIS BOOK COVER BOTH THEORETICAL DEVELOPMENTS AS WELL AS PRACTICAL APPLICATIONS AND HENCE CAN BE UTILIZED BY RESEARCHERS AS WELL AS THE PRACTICING ENGINEERS QUITE NATURALLY REALISTIC MODELING OF A NUMBER OF LOAD TYPES SUCH AS WIND AND EARTHQUAKE LOADING ETC REQUIRES TAKING INTO ACCOUNT STATISTICAL UNCERTAINTIES HENCE THESE LOADS HAVE TO BE CHARACTERIZED BY STOCHASTIC PROCESSES AS A CONSEQUENCE STOCHASTIC ASPECTS MUST PLAY A MAJOR ROLE IN MODERN STRUCTURAL DYNAMICS SINCE AN EXTENDED MODELING OF THE LOAD PROCESSES SHOULD NOT BE COUNTERBALANCED BY SIMPLIFYING THE STRUCTURAL MODELS CONSIDERABLE EFFORTS HAVE BEEN PUT INTO THE DEVELOPMENT OF PROCEDURES WHICH ALLOW THE UTILIZATION OF E G FE MODELS AND CODES WHICH ARE UTILIZED PRESENTLY IN CONTEXT WITH SIMPLIFIED I E DETERMINISTIC LOAD MODELS THUS THE PROCESSING OF THE ADDITIONAL INFORMATION ON LOADS AS WELL AS INCLUDING STATISTICAL PROPERTIES OF THE MATERIAL ALLOWS TO PROVIDE ADDITIONAL ANSWERS I E QUANTIFICATION OF THE RISK OF STRUCTURAL FAILURE THIS VOLUME CONCENTRATES ON FOUR MAJOR AREAS I E ON LOAD MODELING STRUCTURAL RESPONSE ANALYSIS COMPUTATIONAL RELIABILITY PROCEDURES AND FINALLY ON PRACTICAL APPLICATION QUITE NATURALLY ONLY SPECIAL FIELDS AND PARTICULAR I E SELECTED TYPES OF PROBLEMS CAN BE COVERED SPECIFIC REFERENCE IS MADE HOWEVER TO CASES WHERE GENERALIZATIONS ARE POSSIBLE

PROBABILISTIC STRUCTURAL DYNAMICS IS A NEW APPROACH TO BUILDING CALCULATIONS THAT SATISFY SAFETY REQUIREMENTS WHILE AT THE SAME TIME DRIVING NEW EFFICIENCIES THIS TEXT PROVIDES A TUTORIAL TO THESE NEW METHODS

THIS BOOK INTRODUCES TO THE THEORY OF STRUCTURAL DYNAMICS WITH FOCUS ON CIVIL ENGINEERING STRUCTURES THAT MAY BE DESCRIBED BY LINE LIKE BEAM OR BEAM COLUMN TYPE OF SYSTEMS OR BY A SYSTEM OF RECTANGULAR PLATES THROUGHOUT THIS BOOK THE MATHEMATICAL PRESENTATION CONTAINS A CLASSICAL ANALYTICAL DESCRIPTION AS WELL AS A DESCRIPTION IN A DISCRETE FINITE ELEMENT FORMAT COVERING THE MATHEMATICAL DEVELOPMENT FROM BASIC ASSUMPTIONS TO THE FINAL EQUATIONS READY FOR PRACTICAL DYNAMIC RESPONSE PREDICTIONS SOLUTIONS ARE PRESENTED IN TIME DOMAIN AS WELL AS IN FREQUENCY DOMAIN STRUCTURAL DYNAMICS STARTS OFF AT A BASIC LEVEL AND STEP BY STEP BRINGS THE READER UP TO A LEVEL WHERE THE NECESSARY SAFETY CONSIDERATIONS TO WIND OR HORIZONTAL GROUND MOTION INDUCED DYNAMIC DESIGN PROBLEMS CAN BE PERFORMED THE SPECIAL THEORY OF THE TUNED MASS DAMPER HAS BEEN GIVEN A COMPREHENSIVE TREATMENT AS THIS IS A THEORY NOT FULLY COVERED ELSEWHERE FOR THE SAME REASON A CHAPTER ON THE PROBLEM OF MOVING LOADS ON BEAMS HAS BEEN INCLUDED

A CONCISE INTRODUCTION TO THE PRINCIPLES AND PRACTICES OF STRUCTURAL DYNAMICS THIS HANDS ON TEXTBOOK LAYS OUT ESSENTIAL STRUCTURAL DYNAMICS CONCEPTS AND COMPUTATIONAL METHODS THE TEXTBOOK REINFORCES KEY CONCEPTS AND CONNECTS THEORETICAL FORMULATIONS TO CIVIL ENGINEERING PRACTICE DETAILED STEP BY STEP EXAMPLES COVER ALL ESSENTIAL ASPECTS OF STRUCTURAL DYNAMICS WRITTEN BY A PAIR OF EXPERTS ESSENTIALS OF STRUCTURAL DYNAMICS IS IDEAL FOR BOTH STUDENTS AND PRACTICING ENGINEERS WHO NEED TO BRUSH UP ON CURRENT TECHNIQUES AND COMPUTING TOOLS THE BOOK INCLUDES ACCESS TO A VARIOUS DIGITAL ANCILLARIES INCLUDING IMAGE GALLERIES POWERPOINT LECTURE NOTES AND MATLAB SCRIPTS COVERAGE INCLUDES AN INTRODUCTION TO STRUCTURAL DYNAMICS FLEXURAL AND SHEAR STRESSES IN LATERAL FORCE RESISTING PORTAL SYSTEMS FREE VIBRATION OF UNDAMPED SINGLE DEGREE OF FREEDOM SDOF SYSTEMS FREE VIBRATION RESPONSE OF SDOF SYSTEMS WITH VISCOUS DAMPING FORCED VIBRATION RESPONSE OF SDOF SYSTEMS TO HARMONIC LOADING FORCED VIBRATION RESPONSE OF SDOF SYSTEMS TO GENERAL DYNAMIC LOADING APPROXIMATE ANALYSIS FOR SHORT DURATION EXCITATION PULSES VIBRATION OF GENERALIZED SDOF SYSTEMS WITH DISTRIBUTED MASS AND STIFFNESS DISCRETE AND CONTINUOUS SYSTEMS ANALYSIS VIBRATION OF MULTI DEGREE OF FREEDOM MDOF SYSTEMS FORCED VIBRATION OF MDOF SYSTEMS AND MUCH MORE

THIS BOOK OFFERS A COMPREHENSIVE INTRODUCTION TO THE THEORY OF STRUCTURAL DYNAMICS HIGHLIGHTING PRACTICAL ISSUES AND ILLUSTRATING APPLICATIONS WITH A LARGE NUMBER OF WORKED OUT EXAMPLES IN THE SPIRIT OF LEARNING BY DOING IT ENCOURAGES READERS TO APPLY IMMEDIATELY THESE METHODS BY MEANS OF THE SOFTWARE PROVIDED ALLOWING THEM TO BECOME FAMILIAR WITH THE BROAD FIELD OF STRUCTURAL DYNAMICS IN THE PROCESS THE BOOK IS PRIMARILY FOCUSED ON PRACTICAL APPLICATIONS EARTHQUAKE RESISTANT DESIGN IS PRESENTED IN A HOLISTIC MANNER DISCUSSING BOTH THE UNDERLYING GEOPHYSICAL CONCEPTS AND THE LATEST ENGINEERING DESIGN METHODS AND ILLUSTRATED BY FULLY WORKED OUT EXAMPLES BASED ON THE NEWEST STRUCTURAL CODES THE SPECTRAL CHARACTERISTICS OF TURBULENT WIND PROCESSES AND THE MAIN ANALYSIS METHODS IN THE FIELD OF STRUCTURAL OSCILLATIONS DUE TO WIND GUSTS AND VORTEX SHEDDING ARE ALSO DISCUSSED AND APPLICATIONS ILLUSTRATED BY REALISTIC EXAMPLES OF SLENDER CHIMNEY STRUCTURES THE USER

FRIENDLY SOFTWARE EMPLOYED IS DOWNLOADABLE AND CAN BE READILY USED BY READERS TO TACKLE THEIR OWN PROBLEMS

THIS BOOK IS A PRACTITIONER FRIENDLY APPROACH TO DYNAMICS ON STRUCTURAL DESIGN ORIENTED TO FACILITATE UNDERSTANDING OF COMPLICATED ISSUES WITHOUT THEIR ELABORATE MATHEMATICAL FORMULATIONS WHILE THE CHAPTERS FOLLOW LOGICALLY FROM ONE ANOTHER EACH ONE DEALS INDEPENDENTLY WITH A SUBJECT IN STRUCTURAL DYNAMICS THIS APPROACH ALLOWS THE ENGINEER TO GO DIRECTLY TO THE TOPIC OF HIS OR HER INTEREST AT A GIVEN MOMENT THROUGHOUT EACH CHAPTER THE READER WILL FIND THE TEXT SET IN TWO DIFFERENT FORMS FOR DIFFERENT LEVELS OF THE TOPIC IN CONSIDERATION WHICH WILL ENABLE HIM TO POSTPONE FOR A SECOND READING DEEPER EXPLANATIONS CONCEIVED AS PRACTICAL SUPPORT FOR ENGINEERS WHENEVER THEY WANT TO REVIEW A SUBJECT RELATED TO DYNAMICS IN THE PRACTICE OF STRUCTURAL DESIGN THIS BOOK CAN BE OF GREAT HELP FOR STUDENTS OF ENGINEERING

STATIC ANALYSIS IS A SPECIAL CASE OF DYNAMIC ANALYSIS THE MAIN REASON FOR USING STATIC OR PSEUDO STATIC ANALYSIS IS THE SIMPLICITY OF THE DESIGN AND THE ANALYSIS ITSELF MANY STRUCTURES SUCH AS BUILDINGS BRIDGES DAMS SHIPS AIRPLANES AND MORE ARE STUDIED BY A DYNAMIC ANALYSIS WHICH IS A MORE COMPLICATED AND TIME CONSUMING ANALYSIS COMPARED TO A STATIC ONE SUCH STRUCTURES STUDIED IN THIS WAY ARE SAFER AND THEIR BEHAVIOR IS CLOSER TO REALITY THANKS TO THE IMPORTANT EVOLUTION OF COMPUTER SCIENCE NUMERICAL METHODS AND MATHEMATICAL MODELS WE ARE BOLDLY CONFRONTING THE ANALYSIS OF THE MOST COMPLEX STRUCTURES WITH HUGE DIMENSIONS ALL THIS IN A FEW HOURS IN ORDER TO HAVE AN EXACT BEHAVIOR OF THESE STRUCTURES CLOSER TO REALITY THROUGH THE USE OF STATIC DYNAMICS AND ANALYSIS STRUCTURAL DYNAMICS AND STATIC NONLINEAR ANALYSIS FROM THEORY TO APPLICATION IS CONCERNED WITH THE CHALLENGING SUBJECT OF STRUCTURAL DYNAMICS AND THE HYDRODYNAMIC PRINCIPLE AS WELL AS NONLINEAR STATIC METHODS OF ANALYSIS FOR SEISMIC DESIGN OF STRUCTURES THE CHAPTERS ARE ARRANGED INTO THREE PARTS THE FIRST DEALS WITH SINGLE DEGREE OF FREEDOM DOF SYSTEMS THE SECOND PART CONCERNS SYSTEMS WITH MULTIPLE DEGREES OF FREEDOM DOF WITH WHICH ONE CAN CREATE ANALYTICAL AND MATHEMATICAL MODELS OF THE MOST COMPLEX STRUCTURES PASSING THROUGH THE HYDRODYNAMIC PRINCIPLE WITH AN APPLICATION IN REAL CASES THE LAST PART SHEDS LIGHT ON THE PRINCIPLE OF NONLINEAR STATIC METHODS AND ITS APPLICATION IN A REAL CASE THIS BOOK IS IDEAL FOR ACADEMICS RESEARCHERS PRACTICING STRUCTURAL ENGINEERS AND RESEARCH STUDENTS IN THE FIELDS OF CIVIL AND OR MECHANICAL ENGINEERING ALONG WITH PRACTITIONERS INTERESTED IN STRUCTURAL DYNAMICS STATIC DYNAMICS AND ANALYSIS AND REAL LIFE APPLICATIONS

ROBOTS AEROSPACE STRUCTURES ACTIVE EARTHQUAKE DAMPING DEVICES OF TALL BUILDINGS AND ACTIVE SOUND SUPPRESSION ARE EXAMPLES OF THE APPLICATION OF STRUCTURAL DYNAMICS AND CONTROL METHODS THIS BOOK ADDRESSES THE STRUCTURAL DYNAMICS AND CONTROL PROBLEMS ENCOUNTERED BY MECHANICAL CIVIL AND CONTROL ENGINEERS MANY PROBLEMS PRESENTED IN THIS BOOK ORIGINATED IN RECENT APPLICATIONS IN THE AEROSPACE INDUSTRY AND HAVE BEEN SOLVED USING THE APPROACH PRESENTED HERE DYNAMICS ANALYSIS AND CONTROLLER DESIGN FOR FLEXIBLE STRUCTURES REQUIRE A SPECIAL APPROACH DUE TO THE LARGE SIZE OF STRUCTURAL MODELS AND BECAUSE FLEXIBLE STRUCTURE TESTING AND CONTROL TYPICALLY REQUIRES MASSIVE INSTRUMENTATION SENSORS AND ACTUATORS BUT THE RAPID DEVELOPMENT OF NEW TECHNOLOGIES AND THE INCREASED POWER OF COMPUTERS ALLOWS FOR THE FORMULATION AND SOLUTION OF ENGINEERING PROBLEMS THAT SEEMED TO BE UNAPPROACHABLE NOT SO VERY LONG AGO THE MODAL APPROACH WAS CHOSEN IN THIS BOOK IT HAS A LONG TRADITION IN STRUCTURAL ENGINEERING SEE E G 84 87 AND 26 AND IS ALSO USED IN CONTROL SYSTEM ANALYSIS E G 93 ITS USEFULNESS THOROUGHLY TESTED DOES NOT NEED EXTENSIVE JUSTIFICATION BOTH STRUCTURAL TESTING AND ANALYSIS GIVE PRIORITY TO THE MODAL REPRESENTATION DUE TO ITS COMPACTNESS SIMPLICITY AND EXPLICIT PHYSICAL INTERPRETATION ALSO MANY USEFUL STRUCTURAL PROPERTIES ARE PROPERLY EXPOSED ONLY IN MODAL COORDINATES IN THIS BOOK THE MODAL APPROACH PREFERRED BY STRUCTURAL ENGINEERS IS EXTENDED INTO CONTROL ENGINEERING GIVING NEW ANALYTICAL RESULTS AND NARROWING THE GAP BETWEEN STRUCTURAL AND CONTROL ANALYSIS

DYNAMICS OF STRUCTURAL DYNAMICS EXPLAINS FOUNDATIONAL CONCEPTS AND PRINCIPLES SURROUNDING THE THEORY OF VIBRATIONS AND GIVES EQUATIONS OF MOTION FOR COMPLEX SYSTEMS THE BOOK PRESENTS CLASSICAL VIBRATION THEORY IN A CLEAR AND SYSTEMATIC WAY DETAILING ORIGINAL WORK ON VEHICLE BRIDGE INTERACTIONS AND WIND EFFECTS ON BRIDGES CHAPTERS GIVE AN OVERVIEW OF STRUCTURAL VIBRATIONS INCLUDING HOW TO FORMULATE EQUATIONS OF MOTION VIBRATION ANALYSIS OF A SINGLE DEGREE OF FREEDOM SYSTEM A MULTI DEGREE OF FREEDOM SYSTEM AND A CONTINUOUS SYSTEM THE APPROXIMATE CALCULATION OF NATURAL FREQUENCIES AND MODAL SHAPES AND STEP BY STEP INTEGRATION METHODS EACH CHAPTER INCLUDES EXTENSIVE PRACTICAL EXAMPLES AND PROBLEMS THIS VOLUME PRESENTS THE FOUNDATIONAL KNOWLEDGE ENGINEERS NEED TO UNDERSTAND AND WORK WITH STRUCTURAL VIBRATIONS ALSO INCLUDING THE LATEST CONTRIBUTIONS OF A GLOBALLY LEADING RESEARCH GROUP ON VEHICLE BRIDGE INTERACTIONS AND WIND EFFECTS ON BRIDGES EXPLAINS THE FOUNDATIONAL CONCEPTS NEEDED TO UNDERSTAND STRUCTURAL VIBRATIONS IN HIGH SPEED RAILWAYS GIVES THE LATEST RESEARCH FROM A

LEADING GROUP WORKING ON VEHICLE BRIDGE INTERACTIONS AND WIND EFFECTS ON BRIDGES LAYS OUT ROUTINE PROCEDURES FOR GENERATING DYNAMIC PROPERTY MATRICES IN MATLAB PRESENTS A NOVEL PRINCIPLE AND RULE TO HELP RESEARCHERS MODEL TIME VARYING SYSTEMS OFFERS AN EFFICIENT SOLUTION FOR READERS LOOKING TO UNDERSTAND BASIC CONCEPTS AND METHODS IN VIBRATION ANALYSIS

WORLD CLASS AUTHORS DESCRIBE AND ILLUSTRATE HOW STRUCTURAL DYNAMICS IS APPLIED TO THE ENGINEERING DESIGN PROCESS STRUCTURAL DYNAMICS IN ENGINEERING DESIGN COVERS THE FUNDAMENTALS OF STRUCTURAL DYNAMICS AND ITS APPLICATION TO THE ENGINEERING DESIGN PROCESS PROVIDING ALL OF THE NECESSARY INFORMATION TO IMPLEMENT AN OPTIMAL DESIGN PROCESS EACH OF ITS SEVEN CHAPTERS IS WRITTEN BY AN EXPERT IN THE FIELD AND PROVIDES THE READER WITH THE STRUCTURAL DYNAMIC THEORETICAL BACKGROUND AND ITS MORE PRACTICAL ASPECTS FOR THE IMPLEMENTATION OF AN ADVANCED DESIGN CAPABILITY THE FIRST THREE CHAPTERS ARE DEDICATED TO THE UNDERLYING THEORY OF THE THREE MAIN PROCESSES THE FUNDAMENTALS OF VIBRATION THEORY THE BASIS OF EXPERIMENTAL DYNAMICS AND THE MAIN NUMERICAL ANALYSIS TOOLS INCLUDING REFERENCE TO THE FINITE ELEMENT METHOD HAVING LAID THE FOUNDATION OF THE DESIGN PHILOSOPHY THE FOLLOWING THREE CHAPTERS PRESENT THE READER WITH THE THREE DISCIPLINES OF IDENTIFICATION NONLINEAR ANALYSIS AND VALIDATION UPDATING THE FINAL CHAPTER PRESENTS SOME APPLICATIONS OF THE APPROACH TO REAL AND COMPLEX ENGINEERING CASES KEY FEATURES TAKES A MULTI DISCIPLINARY APPROACH AND CONTAINS CRITICAL INFORMATION ON THEORY TESTING AND NUMERICAL ANALYSIS FOR STRUCTURAL DYNAMICS INCLUDES A CHAPTER ON INDUSTRIAL APPLICATIONS INCLUDING AIRCRAFT DESIGN AND GROUND VIBRATION TESTING WHICH ILLUSTRATES THE DESIGN PROCESS AND EXPLAINS HOW STRUCTURAL DYNAMICS IS APPLIED AT DIFFERENT STAGES THE BOOK IS A MUST HAVE FOR RESEARCHERS AND PRACTITIONERS IN MECHANICAL AND AEROSPACE ENGINEERING IN PARTICULAR TEST ENGINEERS CAE ANALYSTS AND STRUCTURAL DYNAMICISTS AS WELL AS GRADUATE STUDENTS IN MECHANICAL AND AEROSPACE ENGINEERING DEPARTMENTS

A CONCISE INTRODUCTION TO STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING BASIC STRUCTURAL DYNAMICS SERVES AS A FUNDAMENTAL INTRODUCTION TO THE TOPIC OF STRUCTURAL DYNAMICS COVERING SINGLE AND MULTIPLE DEGREE OF FREEDOM SYSTEMS WHILE PROVIDING AN INTRODUCTION TO EARTHQUAKE ENGINEERING THE BOOK KEEPS THE COVERAGE SUCCINCT AND ON TOPIC AT A LEVEL THAT IS APPROPRIATE FOR UNDERGRADUATE AND GRADUATE STUDENTS THROUGH DOZENS OF WORKED EXAMPLES BASED ON ACTUAL STRUCTURES IT ALSO INTRODUCES READERS TO MATLAB A POWERFUL SOFTWARE FOR SOLVING BOTH SIMPLE AND COMPLEX STRUCTURAL DYNAMICS PROBLEMS CONCEPTUALLY COMPOSED OF THREE PARTS THE BOOK BEGINS WITH THE BASIC CONCEPTS AND DYNAMIC RESPONSE OF SINGLE DEGREE OF FREEDOM SYSTEMS TO VARIOUS EXCITATIONS NEXT IT COVERS THE LINEAR AND NONLINEAR RESPONSE OF MULTIPLE DEGREE OF FREEDOM SYSTEMS TO VARIOUS EXCITATIONS FINALLY IT DEALS WITH LINEAR AND NONLINEAR RESPONSE OF STRUCTURES SUBJECTED TO EARTHQUAKE GROUND MOTIONS AND STRUCTURAL DYNAMICS RELATED CODE PROVISIONS FOR ASSESSING SEISMIC RESPONSE OF STRUCTURES CHAPTER COVERAGE INCLUDES SINGLE DEGREE OF FREEDOM SYSTEMS FREE VIBRATION RESPONSE OF SDOF SYSTEMS RESPONSE TO HARMONIC LOADING RESPONSE TO IMPULSE LOADS RESPONSE TO ARBITRARY DYNAMIC LOADING MULTIPLE DEGREE OF FREEDOM SYSTEMS INTRODUCTION TO NONLINEAR RESPONSE OF STRUCTURES SEISMIC RESPONSE OF STRUCTURES IF YOU RE AN UNDERGRADUATE OR GRADUATE STUDENT OR A PRACTICING STRUCTURAL OR MECHANICAL ENGINEER WHO REQUIRES SOME BACKGROUND ON STRUCTURAL DYNAMICS AND THE EFFECTS OF EARTHQUAKES ON STRUCTURES BASIC STRUCTURAL DYNAMICS WILL QUICKLY GET YOU UP TO SPEED ON THE SUBJECT WITHOUT SACRIFICING IMPORTANT INFORMATION

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