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Analog and Digital Signal Processing *Analog and Digital Signal Processing* **Analog and Digital Signal Processing Mastering DSP Concepts Using MATLAB** *Structural Dynamics Digital Signal Processing Digital Communications* **Analog and Digital Signals and Systems Numerical Methods Using Matlab Structural Dynamics Structural Dynamics** *Plates and Shells Experiments in Digital Fundamentals* **Digital Signal Processing Using MATLAB** *Digital Signal Processing* **The Neem Genome** *Bioprocess Engineering Principles A Case of Culture* **Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK** *An Introduction to Numerical Analysis Exploratory Data Analysis with MATLAB* **Discrete-Time Signal Processing** *Modern Semiconductor Devices for Integrated Circuits* *Local Economic and Employment Development (LEED) Culture and Local Development* *Computational Aids in Control Systems Using MATLAB* **Digital Signal Processing and Applications with the C6713 and C6416 DSK** **Analog and Digital Filters ; Design and Realization** **Fundamentals of Digital Signal Processing** *Probability with Applications in Engineering, Science, and Technology* **Anatomy and Physiology Analysis and Design of Digital Integrated Circuits** *Design of Machine Members* **Applied Digital Signal Processing** **Analog Filter Design** *Freshwater Microbiology Microorganisms in Sustainable Agriculture and Biotechnology The Saffron Genome* **Canadian Foundation Engineering Manual** *The Scientist and Engineer's Guide to Digital Signal Processing* **Bioinformatics in Rice Research**

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this book describes the sequencing efforts for neem azadirachta indica a juss one of the most versatile tropical evergreen tree species the neem tree is a source of various natural products including the potent biopesticide azadirachtin and limonoids which have a broad spectrum of activity against insect pests and microbial pathogens to identify genes and pathways in neem three neem genomes and several transcriptomes are studied using next generation sequencing technologies neem has been extensively used in ayurveda unani and homoeopathic medicine and is often referred to as the village pharmacy by natives due to its wealth of medicinal properties besides the description of the genome this book discusses the neem microbiome and its role in the production of neem metabolites like salanin nimbin and exopy azadirachtin under in vitro conditions it also highlights cell and tissue culture using various neem explants including the leaf root shoot cambium etc master the basic concepts and methodologies of digital signal processing with this systematic introduction without the need for an extensive mathematical background the authors lead the reader through the fundamental mathematical principles underlying the operation of key signal processing techniques providing simple arguments and cases rather than detailed general proofs coverage of practical implementation discussion of the limitations of particular methods and plentiful matlab illustrations allow readers to better connect theory and practice a focus on algorithms that are of theoretical importance or useful in real world applications ensures that students cover material relevant to engineering practice and equips students and practitioners alike with the basic principles necessary to apply dsp techniques to a variety of applications chapters include worked examples problems and computer experiments helping students to absorb the material they have just read lecture slides for all figures and solutions to the numerous problems are available to instructors praise for the second edition the authors present an intuitive and easy to read book accompanied by many examples proposed exercises good references and comprehensive appendices that initiate the reader unfamiliar with matlab adolfo alvarez pinto international statistical review practitioners of eda who use matlab will want a copy of this book the authors have done a great service by bringing together so many eda routines but their main accomplishment in this dynamic text is providing the understanding and tools to do eda david a huckaby maa reviews exploratory data analysis eda is an important part of the data analysis process the methods presented in this text are ones that should be in the toolkit of every data scientist as computational sophistication has increased and data sets have grown in size and complexity eda has become an even more important process for visualizing and summarizing data before making assumptions to generate hypotheses and models exploratory data analysis with matlab third edition presents eda methods from a computational perspective and uses numerous examples and applications to show how the methods are used in practice the authors use matlab code pseudo code and algorithm descriptions to illustrate the concepts the matlab code for examples data sets and the eda toolbox are available for download on the book s website new to the third edition random projections and estimating local intrinsic dimensionality deep learning autoencoders and stochastic neighbor embedding minimum spanning tree and additional cluster validity indices kernel density estimation plots for visualizing data distributions such as beanplots and violin plots a chapter on visualizing categorical data this textbook on signals and systems provides a complete array of matlab tools specifically designed for the course compatible with matlab 3 5 or 4 0 this software tool is used in the context of a presentation of systems concepts and analysis techniques use of matlab helps students to understand what the mathematical abstractions represent which helps them to understand the behavior of a variety of systems in response to a wide range of signal inputs the software provides students with instantaneous feedback which encourages them to explore problems further topics covered in the text include signals systems convolution

fourier series and transforms laplace transforms analog filters sampling the discrete time fourier transform dtft fft z transforms and digital filters all basic concepts are illustrated by worked examples end of chapter problems include simple drills as well as more challenging exercises that develop or extend the concepts covered a unique but optional feature of this text is the software supplied on disk which contains ready to run demonstrations interactive programs and full fledged general purpose programs the software runs under matlab and includes routines developed for plotting functions generating random signals regular and periodic convolution analytical and numerical solution of differential and difference equations fourier analysis frequency response asymptotic bode plots closed form expressions for laplace and z transforms and inverse transforms classical analog filter design sampling quantization interpolation fir and iir filter design using various methods and more so as not to affect the continuity and logical flow of the text material the programs are described and used only in the accompanying documentation on disk a matlab appendix to each chapter lists the appropriate programs and each section that can be tied to the software is marked the use of cosmos for the analysis and solution of structural dynamics problems is introduced in this new edition the cosmos program was selected from among the various professional programs available because it has the capability of solving complex problems in structures as well as in other engineering fields such as heat transfer fluid flow and electromagnetic phenomena cosmos includes routines for structural analysis static or dynamics with linear or nonlinear behavior material nonlinearity or large displacements and can be used most efficiently in the microcomputer the larger version of cosmos has the capacity for the analysis of structures modeled up to 64 000 nodes this fourth edition uses an introductory version that has a capability limited to 50 nodes or 50 elements this version is included in the supplement structural dynamics using cosmos 1 the sets of educational programs in structural dynamics and earthquake engineering that accompanied the third edition have now been extended and updated these sets include programs to determine the response in the time or frequency domain using the fast fourier transform of structures modeled as a single oscillator also included is a program to determine the response of an inelastic system with elastoplastic behavior and a program for the development of seismic response spectral charts a set of seven computer programs is included for modeling structures as two dimensional and three dimensional frames and trusses accompanying computer disk contains a suite of matlab m files that reside in two directories called adsp and gui on the supplied disk digital signal processing second edition enables electrical engineers and technicians in the fields of biomedical computer and electronics engineering to master the essential fundamentals of dsp principles and practice many instructive worked examples are used to illustrate the material and the use of mathematics is minimized for easier grasp of concepts as such this title is also useful to undergraduates in electrical engineering and as a reference for science students and practicing engineers the book goes beyond dsp theory to show implementation of algorithms in hardware and software additional topics covered include adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc more advanced topics are also covered such as adaptive filters speech compression such as pcm u law adpcm and multi rate dsp and over sampling adc new to this edition matlab projects dealing with practical applications added throughout the book new chapter chapter 13 covering sub band coding and wavelet transforms methods that have become popular in the dsp field new applications included in many chapters including applications of dft to seismic signals electrocardiography data and vibration signals all real time c programs revised for the tms320c6713 dsk covers dsp principles with emphasis on communications and control applications chapter objectives worked examples and end of chapter exercises aid the reader in grasping key concepts and solving related problems website with matlab programs for simulation and c programs for real time dsp this supplement to any standard dsp text is one of the first books to successfully integrate the use of matlab in the study of dsp concepts in this book matlab is used as a computing tool to explore traditional dsp topics and solve problems to gain insight this greatly expands the range and complexity of problems that students can effectively study in the course since dsp applications are primarily algorithms implemented on a dsp processor or software a fair amount of programming is required using interactive software such as matlab makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms interesting practical

examples are discussed and useful problems are explored this updated second edition includes new homework problems and revises the scripts in the book available functions and m files to matlab v7 this software oriented manual is intended to supplement junior and senior level texts on digital signal processing dsp and to serve as a visualization aid for concepts that are central to understanding dsp principles accompanying computer disk contains functions and examples developed by the author this package consists of the textbook plus matlab simulink student version 2010a for undergraduate introduction to numerical analysis courses in mathematics science and engineering departments this book provides a fundamental introduction to numerical analysis for undergraduate students in the areas of mathematics computer science physical sciences and engineering knowledge of calculus is assumed the clear easy to understand introduction to digital communications completely updated coverage of today's most critical technologies step by step implementation coverage trellis coded modulation fading channels reed solomon codes encryption and more exclusive coverage of maximizing performance with advanced turbo codes this is a remarkably comprehensive treatment of the field covering in considerable detail modulation coding both source and channel encryption multiple access and spread spectrum it can serve both as an excellent introduction for the graduate student with some background in probability theory or as a valuable reference for the practicing communication system engineer for both communities the treatment is clear and well presented andrew viterbi the viterbi group master every key digital communications technology concept and technique digital communications second edition is a thoroughly revised and updated edition of the field's classic best selling introduction with remarkable clarity dr bernard sklar introduces every digital communication technology at the heart of today's wireless and internet revolutions providing a unified structure and context for understanding them all without sacrificing mathematical precision sklar begins by introducing the fundamentals of signals spectra formatting and baseband transmission next he presents practical coverage of virtually every contemporary modulation coding and signal processing technique with numeric examples and step by step implementation guidance coverage includes signals and processing steps from information source through transmitter channel receiver and information sink key tradeoffs signal to noise ratios probability of error and bandwidth expenditure trellis coded modulation and reed solomon codes what's behind the math synchronization and spread spectrum solutions fading channels causes effects and techniques for withstanding fading the first complete how to guide to turbo codes squeezing maximum performance out of digital connections implementing encryption with pgp the de facto industry standard whether you're building wireless systems xdsl fiber or coax based services satellite networks or internet infrastructure sklar presents the theory and the practical implementation details you need with nearly 500 illustrations and 300 problems and exercises there's never been a faster way to master advanced digital communications cd rom included the cd rom contains a complete educational version of elanix systemview dsp design software as well as detailed notes for getting started a comprehensive dsp tutorial and over 50 additional communications exercises this book provides an up to date review of classic and advanced bioinformatics approaches and their utility in rice research it summarizes databases and tools for analyzing dna proteins and gene expression profiles mapping genetic variations annotation of protein and rna molecules phylogenetic analysis and pathway enrichment in addition it presents high throughput technologies that are widely used to provide deep insights into the genetic architecture of important traits in the rice genome the book subsequently discusses techniques for identifying rna protein dna protein interactions and molecular markers including snp and microsatellites in the contexts of rice breeding and genetics lastly it explores various tools that are used to identify and characterize non coding rna in rice and their potential role in rice research this book provides a modern and self contained introduction to digital signal processing dsp it is supplemented by a vast number of end of chapter problems such as worked examples drill exercises and application oriented problems that require the use of computational resources such as matlab also many figures have been included to help grasp and visualize critical concepts results are tabulated and summarized for easy reference and access the text also provides a broader perspective to the content by introducing useful applications and additional special topics in each chapter these form the background for more advanced graduate courses digital signal processing and applications with the tms320c6713 and tms320c6416 dsk now in a new edition the most comprehensive hands on introduction to digital signal

processing the first edition of digital signal processing and applications with the tms320c6713 and tms320c6416 dsk is widely accepted as the most extensive text available on the hands on teaching of digital signal processing dsp now it has been fully updated in this valuable second edition to be compatible with the latest version 3.1 of texas instruments code composer studio ccs development environment maintaining the original's comprehensive hands on approach that has made it an instructor's favorite this new edition also features added program examples that illustrate dsp concepts in real time and in the laboratory expanded coverage of analog input and output new material on frame based processing a revised chapter on iir which includes a number of floating point example programs that explore iir filters more comprehensively more extensive coverage of dsp bios all programs listed in the text plus additional applications which are available on a companion website no other book provides such an extensive or comprehensive set of program examples to aid instructors in teaching dsp in a laboratory using audio frequency signals making this an ideal text for dsp courses at the senior undergraduate and postgraduate levels it also serves as a valuable resource for researchers dsp developers business managers and technology solution providers who are looking for an overview and examples of dsp algorithms implemented using the tms320c6713 and tms320c6416 dsk this updated and revised first course textbook in applied probability provides a contemporary and lively post calculus introduction to the subject of probability the exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios it is intended to appeal to a wide audience including mathematics and statistics majors prospective engineers and scientists and those business and social science majors interested in the quantitative aspects of their disciplines the textbook contains enough material for a year long course though many instructors will use it for a single term one semester or one quarter as such three course syllabi with expanded course outlines are now available for download on the book's page on the springer website a one term course would cover material in the core chapters 1-4 supplemented by selections from one or more of the remaining chapters on statistical inference ch 5 markov chains ch 6 stochastic processes ch 7 and signal processing ch 8 available exclusively online and specifically designed for electrical and computer engineers making the book suitable for a one term class on random signals and noise for a year long course core chapters 1-4 are accessible to those who have taken a year of univariate differential and integral calculus matrix algebra multivariate calculus and engineering mathematics are needed for the latter more advanced chapters at the heart of the textbook's pedagogy are 1-100 applied exercises ranging from straightforward to reasonably challenging roughly 700 exercises in the first four core chapters alone a self contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand in r and matlab including code so that students can create simulations new to this edition updated and re worked recommended coverage for instructors detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints extended and revised instructions and solutions to problem sets overhaul of section 7.7 on continuous time markov chains supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students ideal for advanced undergraduate and first year graduate courses in analog filter design and signal processing design of analog filters integrates theory and practice in order to provide a modern and practical how to approach to design this book provides engineering students with an understanding of the dynamic response of structures and the analytical tools to determine such responses this comprehensive text demonstrates how modern theories and solution techniques can be applied to a large variety of practical real world problems as computers play a more significant role in this field the authors emphasize discrete methods of analysis and numerical solution techniques throughout the text features covers a wide range of topics with practical applications provides comprehensive treatment of discrete methods of analysis emphasizes the mathematical modeling of structures includes principles and solution techniques of relevance to engineering mechanics civil mechanical and aerospace engineering this book is about saffron *crocus sativus* l that is the most expensive spice in the world though there are other books on saffron but none of them has comprehensive information on saffron genome transcriptome proteome metabolome and microbiome the book has been divided into five sections and 17 chapters that cover all the areas related to its cultivation market economy genomics transcriptomics

proteomics metabolomics tissue culture microbiomics metagenomics etc in addition a chapter on molecular markers and their use in molecular genetic mapping in saffron that lacks genetic diversity as a sterile plant paves a way for selection of elite varieties based on the epigenetic variability a section on in vitro propagation elaborates on the corm production under controlled conditions in summary this book encompasses most of the information available on this golden spice there are three major healing traditions in the world western biomedicine supernatural healing and holistic healing in a world of increasingly blended cultures languages and traditions what happens when these contrasting healing practices clash in a case of culture author snigdha nandipati delves into the unspoken challenges that immigrant patients face when seeking healthcare in the west exploring how we can bridge these cultural divides in our healthcare system the solution cultural brokers in this book readers will learn how cultural brokers advocate for their patients enhance the patient doctor relationship and build cultural humility in the healthcare setting through stories such as the hospitalist who revived her unconscious elderly indian patient by calling her aunty the latino evangelical priest who used his sermon to encourage worshippers to get vaccinated against covid 19 the psychiatrist who gained the trust of his telugu patient with the skillful balance of spirituality and medicine readers will better understand how culture plays a role in the medical care that is provided and how cultural brokers work to fill the growing culture gap in healthcare this book will speak to healthcare providers and immigrant families alike those who hope to look at culture and healthcare with fresh eyes this publication highlights the impact of culture on local economies and the methodological issues related to its identification the third edition of hedges and jackson's analysis and design of digital integrated circuits has been thoroughly revised and updated by a new co author resve saleh of the university of british columbia the new edition combines the approachability and concise nature of the hedges and jackson classic with a complete overhaul to bring the book into the 21st century the new edition has replaced the emphasis on bipolar with an emphasis on cmos the outdated mos transistor model used throughout the book will be replaced with the now standard deep submicron model the material on memory has been expanded and updated as well the book now includes more on spice simulation and new problems that reflect recent technologies the emphasis of the book is on design but it does not neglect analysis and has as a goal to provide enough information so that a student can carry out analysis as well as be able to design a circuit this book provides an excellent and balanced introduction to digital circuit design for both students and professionals the emergence and refinement of techniques in molecular biology has changed our perceptions of medicine agriculture and environmental management scientific breakthroughs in gene expression protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement however graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture reaping the full benefits of biotechnology requires manufacturing capability involving the large scale processing of biological material increasingly biotechnologists are being employed by companies to work in co operation with chemical engineers to achieve pragmatic commercial goals for many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists this textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists other texts on bioprocess engineering currently available assume that the reader already has engineering training on the other hand chemical engineering textbooks do not consider examples from bioprocessing and are written almost exclusively with the petroleum and chemical industries in mind this publication explains process analysis from an engineering point of view but refers exclusively to the treatment of biological systems over 170 problems and worked examples encompass a wide range of applications including recombinant cells plant and animal cell cultures immobilised catalysts as well as traditional fermentation systems first book to present the principles of bioprocess engineering in a way that is accessible to biological scientists explains process analysis from an engineering point of view but uses worked examples relating to biological systems comprehensive single authored 170 problems and worked examples encompass a wide range of applications involving recombinant plant and

animal cell cultures immobilized catalysts and traditional fermentation systems 13 chapters organized according to engineering sub disciplines are grouped in four sections introduction material and energy balances physical processes and reactions and reactors each chapter includes a set of problems and exercises for the student key references and a list of suggestions for further reading includes useful appendices detailing conversion factors physical and chemical property data steam tables mathematical rules and a list of symbols used suitable for course adoption follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels noted for its practical accessible approach to senior and graduate level engineering mechanics plates and shells theory and analysis is a long time bestselling text on the subjects of elasticity and stress analysis many new examples and applications are included to review and support key foundational concepts advanced methods are discussed and analyzed accompanied by illustrations problems are carefully arranged from the basic to the more challenging level computer numerical approaches finite difference finite element matlab are introduced and matlab code for selected illustrative problems and a case study is included this review of recent developments in our understanding of the role of microbes in sustainable agriculture and biotechnology covers a research area with enormous untapped potential chemical fertilizers pesticides herbicides and other agricultural inputs derived from fossil fuels have increased agricultural production yet growing awareness and concern over their adverse effects on soil productivity and environmental quality cannot be ignored the high cost of these products the difficulties of meeting demand for them and their harmful environmental legacy have encouraged scientists to develop alternative strategies to raise productivity with microbes playing a central role in these efforts one application is the use of soil microbes as bioinoculants for supplying nutrients and or stimulating plant growth some rhizospheric microbes are known to synthesize plant growth promoters siderophores and antibiotics as well as aiding phosphorous uptake the last 40 years have seen rapid strides made in our appreciation of the diversity of environmental microbes and their possible benefits to sustainable agriculture and production the advent of powerful new methodologies in microbial genetics molecular biology and biotechnology has only quickened the pace of developments the vital part played by microbes in sustaining our planet s ecosystems only adds urgency to this enquiry culture dependent microbes already contribute much to human life yet the latent potential of vast numbers of uncultured and thus untouched microbes is enormous culture independent metagenomic approaches employed in a variety of natural habitats have alerted us to the sheer diversity of these microbes and resulted in the characterization of novel genes and gene products several new antibiotics and biocatalysts have been discovered among environmental genomes and some products have already been commercialized meanwhile dozens of industrial products currently formulated in large quantities from petrochemicals such as ethanol butanol organic acids and amino acids are equally obtainable through microbial fermentation edited by a trio of recognized authorities on the subject this survey of a fast moving field with so many benefits within reach will be required reading for all those investigating ways to harness the power of microorganisms in making both agriculture and biotechnology more sustainable modern semiconductor devices for integrated circuits first edition introduces readers to the world of modern semiconductor devices with an emphasis on integrated circuit applications key topics electrons and holes in semiconductors motion and recombination of electrons and holes device fabrication technology pn and metal semiconductor junctions mos capacitor mos transistor mosfets in ics scaling leakage and other topics bipolar transistor market written by an experienced teacher researcher and expert in industry practices this succinct and forward looking text is appropriate for anyone interested in semiconductor devices for integrated circuits and serves as a suitable reference text for practicing engineers freshwater microbiology perspectives of bacterial dynamics in lake ecosystems provides a comprehensive and systematic analysis of microbial ecology in lakes it offers basic information on how well the bacterial community composition varies along the spatio temporal and trophic gradients along with the evaluation of the bioindicator species of bacteria so as to act as a key to predict the trophic status of lake ecosystems the book helps to identify the factors of potential importance in structuring the bacterial communities in lakes as it delves into the dynamics and diversity of bacterial community composition in relation to various water quality parameters it helps to identify the possibility of bioremediation plans and devising future policy decisions with better conservation and

management practices provides a comprehensive and systematic analysis of microbial ecology helps to identify the factors of potential importance in structuring the bacterial community composition gives insight into the bacterial diversity of freshwater lake ecosystems along with their industrial potential caters to the needs and aspirations of students and professional researchers this book introduces the theory of structural dynamics with focus on civil engineering structures 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 book serves the practicing engineer as a primary reference this book 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 and then moves to systems with many degrees of freedom in the following chapters many worked examples problems are presented to explain the text and a few computer programs are presented to help better understand the concepts the book is useful to the research scholars and professional engineers besides senior undergraduate and postgraduate students this book is a tutorial on digital techniques for waveform generation digital filters and digital signal processing tools and techniques the typical chapter begins with some theoretical material followed by working examples and experiments using the tms320c6713 based dspstarter kit dsk the c6713 dsk is ti s newest signal processor based on the c6x processor replacing the c6711 dsk numerical analysis provides the theoretical foundation for the numerical algorithms we rely on to solve a multitude of computational problems in science based on a successful course at oxford university this book covers a wide range of such problems ranging from the approximation of functions and integrals to the approximate solution of algebraic transcendental differential and integral equations throughout the book particular attention is paid to the essential qualities of a numerical algorithm stability accuracy reliability and efficiency the authors go further than simply providing recipes for solving computational problems they carefully analyse the reasons why methods might fail to give accurate answers or why one method might return an answer in seconds while another would take billions of years this book is ideal as a text for students in the second year of a university mathematics course it combines practicality regarding applications with consistently high standards of rigour this book presents a systematic comprehensive treatment of analog and discrete signal analysis and synthesis and an introduction to analog communication theory this evolved from my 40 years of teaching at oklahoma state university osu it is based on three courses signal analysis a second semester junior level course active filters a first semester senior level course and digital signal processing a second semester senior level course i have taught these courses a number of times using this material along with existing texts the references for the books and journals over 160 references are listed in the bibliography section at the undergraduate level most signal analysis courses do not require probability theory only a very small portion of this topic is included here i emphasized the basics in the book with simple mathematics and the sophistication is minimal theorem proof type of material is not emphasized the book uses the following model 1 learn basics 2 check the work using bench marks 3 use software to see if the results are accurate the book provides detailed examples over 400 with applications a thr number system is used consisting of chapter number section number example or problem number thus allowing the student to quickly identify the related material in the appropriate section of the book the book includes well over 400 homework problems problem numbers are identified using the above three number system

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