

23. A perfect number is a positive integer that is equal to the sum of its positive divisors except the number itself. The first two perfect numbers are 6 and 28 since $6 = 1 + 2 + 3$ and $28 = 1 + 2 + 4 + 7 + 14$. Write a computer program that finds the first four perfect numbers.

Solution

Script file:

```
clear, clc
j=1;
for N=2:10000
    clear div
    div(1)=1;
    k=2;
    for i=2:fix(N/2)
        if rem(N,i)==0
            div(k)=i;
            k=k+1;
        end
    end
    if sum(div)==N
        PerfectN(j)=N;
        j=j+1;
    end
end
PerfectN
```

Command Window:

```
PerfectN =
         6         28        496       8128
>>
```

Chapter Solutions Matlab

**Ronald L. Lipsman, Jonathan M.
Rosenberg**



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A Guide to MATLAB Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Kevin R. Coombes, John E. Osborn, Garrett J. Stuck, 2006-06-08 This is a short focused introduction to MATLAB a comprehensive software system for mathematical and technical computing It contains concise explanations of essential MATLAB commands as well as easily understood instructions for using MATLAB s programming features graphical capabilities simulation models and rich desktop interface Written for MATLAB 7 it can also be used with earlier and later versions of MATLAB This book teaches how to graph functions solve equations manipulate images and much more It contains explicit instructions for using MATLAB s companion software Simulink which allows graphical models to be built for dynamical systems MATLAB s new publish feature is discussed which allows mathematical computations to be combined with text and graphics to produce polished integrated interactive documents For the beginner it explains everything needed to start using MATLAB while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here *Multivariable Calculus with MATLAB®* Ronald L. Lipsman, Jonathan M. Rosenberg, 2017-12-06 This comprehensive treatment of multivariable calculus focuses on the numerous tools that MATLAB brings to the subject as it presents introductions to geometry mathematical physics and kinematics Covering simple calculations with MATLAB relevant plots integration and optimization the numerous problem sets encourage practice with newly learned skills that cultivate the reader s understanding of the material Significant examples illustrate each topic and fundamental physical applications such as Kepler s Law electromagnetism fluid flow and energy estimation are brought to prominent position Perfect for use as a supplement to any standard multivariable calculus text a mathematical methods in physics or engineering class for independent study or even as the class text in an honors multivariable calculus course this textbook will appeal to mathematics engineering and physical science students MATLAB is tightly integrated into every portion of this book and its graphical capabilities are used to present vibrant pictures of curves and surfaces Readers benefit from the deep connections made between mathematics and science while learning more about the intrinsic geometry of curves and surfaces With serious yet elementary explanation of various numerical algorithms this textbook enlivens the teaching of multivariable calculus and mathematical methods courses for scientists and engineers **Discrete Fourier Analysis and Wavelets** S. Allen Broughton, Kurt Bryan, 2018-04-03 Delivers an appropriate mix of theory and applications to help readers understand the process and problems of image and signal analysis Maintaining a comprehensive and accessible treatment of the concepts methods and applications of signal and image data transformation this Second Edition of Discrete Fourier Analysis and Wavelets Applications to Signal and Image Processing features updated and revised coverage throughout with an emphasis on key and recent developments in the field of signal and image processing Topical coverage includes vector spaces signals and images the discrete Fourier transform the discrete cosine transform convolution and filtering windowing

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Fundamentals of Structural Dynamics Roy R. Craig, Jr., Andrew J. Kurdila, 2006-07-11 From theory and fundamentals to the latest advances in computational and experimental modal analysis this is the definitive updated reference on structural dynamics. This edition updates Professor Craig's classic introduction to structural dynamics which has been an invaluable resource for practicing engineers and a textbook for undergraduate and graduate courses in vibrations and or structural dynamics. Along with comprehensive coverage of structural dynamics fundamentals finite element based computational methods and dynamic testing methods this Second Edition includes new and expanded coverage of computational methods as well as introductions to more advanced topics including experimental modal analysis and active structures. With a systematic approach it presents solution techniques that apply to various engineering disciplines. It discusses single degree of freedom SDOF systems multiple degrees of freedom MDOF systems and continuous systems in depth and includes numeric evaluation of modes and frequency of MDOF systems direct integration methods for dynamic response of SDOF systems and MDOF systems and component mode synthesis. Numerous illustrative examples help engineers apply the techniques and methods to challenges they face in the real world. MATLAB is extensively used throughout the book and many of the m files are made available on the book's Web site. *Fundamentals of Structural Dynamics* Second Edition is an indispensable reference and refresher course for engineering professionals and a textbook for seniors or graduate students in mechanical engineering civil engineering engineering mechanics or aerospace engineering.

Mathematics Catalog 2005 Neil Thomson, 2004-10 [Fundamentals of Statistical Signal Processing, Volume III](#) Steven M. Kay, 2013-04-05 The Complete Modern Guide to Developing Well Performing Signal Processing Algorithms In *Fundamentals of Statistical Signal Processing Volume III Practical Algorithm Development* author Steven M Kay shows how to convert theories of statistical signal processing estimation and detection

into software algorithms that can be implemented on digital computers This final volume of Kay's three volume guide builds on the comprehensive theoretical coverage in the first two volumes Here Kay helps readers develop strong intuition and expertise in designing well performing algorithms that solve real world problems Kay begins by reviewing methodologies for developing signal processing algorithms including mathematical modeling computer simulation and performance evaluation He links concepts to practice by presenting useful analytical results and implementations for design evaluation and testing Next he highlights specific algorithms that have stood the test of time offers realistic examples from several key application areas and introduces useful extensions Finally he guides readers through translating mathematical algorithms into MATLAB code and verifying solutions Topics covered include Step by step approach to the design of algorithms Comparing and choosing signal and noise models Performance evaluation metrics tradeoffs testing and documentation Optimal approaches using the big theorems Algorithms for estimation detection and spectral estimation Complete case studies Radar Doppler center frequency estimation magnetic signal detection and heart rate monitoring Exercises are presented throughout with full solutions This new volume is invaluable to engineers scientists and advanced students in every discipline that relies on signal processing researchers will especially appreciate its timely overview of the state of the practical art Volume III complements Dr Kay's Fundamentals of Statistical Signal Processing Volume I Estimation Theory Prentice Hall 1993 ISBN 13 978 0 13 345711 7 and Volume II Detection Theory Prentice Hall 1998 ISBN 13 978 0 13 504135 2

Digital Signal Processing Using MATLAB V.4 Vinay K. Ingle, John G. Proakis, 1997 Intended to supplement traditional references on digital signal processing DSP for readers who wish to make MATLAB an integral part of DSP this text covers such topics as Discrete time signals and systems Discrete time Fourier analysis the z Transform the Discrete Fourier Transform digital filter structures FIR filter design IIR filter design and more *Mathematics Today*, 2002

Dynamical Systems with Applications Using MATLAB Stephen Lynch, 2004 *Modern Control Systems* Richard C. Dorf, Robert H. Bishop, 2005 Written to be equally useful for all engineering disciplines this book is organized around the concept of control systems theory as it has been developed in the frequency and time domains It provides coverage of classical control employing root locus design frequency and response design using Bode and Nyquist plots It also covers modern control methods based on state variable models including pole placement design techniques with full state feedback controllers and full state observers The book covers several important topics including robust control systems and system sensitivity state variable models controllability and observability computer control systems internal model control robust PID controllers and computer aided design and analysis For all types of engineers who are interested in a solid introduction to control systems

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Engineering Mechanics A. Bedford, Wallace L. Fowler, 2005 While covering the basic principles of mechanics in an example driven format this innovative book emphasizes critical thinking by presenting the reader with engineering situations Compelling photorealistic art and a robust photograph program helps readers to connect visually to the topics discussed Features strong coverage of FBDs and important ABET topics Chapter topics include Vectors Forces Systems of Forces and Moments Objects in Equilibrium Structures In Equilibrium Centroids and Centers of Mass Moments of Inertia Friction Internal Forces and Moments Virtual Work and Potential Energy For professionals in mechanical civil aeronautical or engineering mechanics fields Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania, 2012

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