

# MECHANICAL ENGINEERING FORMULA CHART FOR QUICK REVISION Vol. 1



**1.1. Kinematics**

Displacement  $s = ut + \frac{1}{2}at^2$

Velocity  $v = u + at$

Acceleration  $a = \frac{dv}{dt}$

**1.2. Dynamics**

Force  $F = ma$

Work  $W = F \cdot s$

Power  $P = \frac{W}{t}$

**1.3. Fluid Mechanics**

Continuity Equation  $A_1v_1 = A_2v_2$

Bernoulli's Equation  $P + \frac{1}{2}\rho v^2 + \rho gh = \text{constant}$

Reynolds Number  $Re = \frac{\rho v L}{\mu}$

**1.4. Thermodynamics**

First Law  $Q = \Delta U + W$

Second Law  $\Delta S \geq 0$

**1.5. Heat Transfer**

Conduction  $Q = \frac{kA\Delta T}{L}$

Convection  $Q = hA\Delta T$

Radiation  $Q = \epsilon\sigma A(T^4 - T_s^4)$

**1.6. Mechanics of Solids**

Stress  $\sigma = \frac{F}{A}$

Strain  $\epsilon = \frac{\Delta L}{L}$

Hooke's Law  $\sigma = E\epsilon$

**1.7. Mechanics of Fluids**

Dynamic Pressure  $q = \frac{1}{2}\rho v^2$

Stagnation Pressure  $P_0 = P + \frac{1}{2}\rho v^2$

**1.8. Turbomachinery**

Efficiency  $\eta = \frac{W_{actual}}{W_{ideal}}$

**1.9. Machine Design**

Factor of Safety  $n = \frac{\sigma_{UTS}}{\sigma_{working}}$

**1.10. Vibration**

Resonance  $\omega = \omega_n$

**1.11. Strength of Materials**

Shear Stress  $\tau = \frac{F}{A}$

Bending Stress  $\sigma = \frac{My}{I}$

**1.12. Fluid Flow**

Laminar Flow  $Q = \frac{\pi r^4 \Delta P}{8\mu L}$

Turbulent Flow  $Q = \frac{\pi r^3 v_{max}}{3}$

**1.13. Dimensional Analysis**

Buckingham's Pi Theorem

**1.14. Miscellaneous**

Centrifugal Force  $F_c = m\omega^2 r$

Centripetal Acceleration  $a_c = \frac{v^2}{r}$

**1.15. Material Properties**

Young's Modulus  $E = \frac{\sigma}{\epsilon}$

Poisson's Ratio  $\nu = -\frac{\epsilon_{lateral}}{\epsilon_{axial}}$

**1.16. Fluid Properties**

Density  $\rho = \frac{m}{V}$

Viscosity  $\mu = \frac{\tau}{\dot{\gamma}}$

**1.17. Heat Properties**

Specific Heat  $c_p = \frac{Q}{m\Delta T}$

Thermal Expansion  $\Delta L = L\alpha\Delta T$

**1.18. Mechanical Properties**

Modulus of Rigidity  $G = \frac{\tau}{\gamma}$

Volume Change  $\Delta V = V\beta\Delta T$

**1.19. Fluid Statics**

Hydrostatic Pressure  $P = \rho gh$

Archimedes' Principle  $F_b = \rho V_{displaced} g$

**1.20. Fluid Dynamics**

Flow Velocity  $v = \frac{Q}{A}$

Flow Rate  $Q = Av$

**1.21. Thermodynamic Properties**

Enthalpy  $H = U + PV$

Entropy  $S = k_B \ln \Omega$

**1.22. Mechanical Properties**

Stress Intensity Factor  $K_{Ic}$

**1.23. Fluid Properties**

Surface Tension  $\sigma = \frac{F}{L}$

Capillary Rise  $h = \frac{2\sigma \cos \theta}{\rho g r}$

**1.24. Heat Properties**

Thermal Conductivity  $k = \frac{Q}{A\Delta T}$

Thermal Diffusivity  $\alpha = \frac{k}{\rho c_p}$

**1.25. Mechanical Properties**

Modulus of Elasticity  $E = \frac{\sigma}{\epsilon}$

**1.26. Fluid Properties**

Dynamic Viscosity  $\mu$

Kinematic Viscosity  $\nu = \frac{\mu}{\rho}$

**1.27. Heat Properties**

Thermal Conductivity  $k$

Thermal Expansion Coefficient  $\alpha$

**1.28. Mechanical Properties**

Modulus of Rigidity  $G$

Poisson's Ratio  $\nu$

**1.29. Fluid Properties**

Density  $\rho$

Specific Gravity  $SG = \frac{\rho_{fluid}}{\rho_{water}}$

**1.30. Heat Properties**

Specific Heat  $c_p$

Specific Heat  $c_v$

**1.31. Mechanical Properties**

Stress  $\sigma$

Strain  $\epsilon$

**1.32. Fluid Properties**

Flow Velocity  $v$

Flow Rate  $Q$

**1.33. Heat Properties**

Temperature  $T$

Temperature Difference  $\Delta T$

**1.34. Mechanical Properties**

Force  $F$

Moment  $M$

**1.35. Fluid Properties**

Pressure  $P$

Pressure Difference  $\Delta P$

**1.36. Heat Properties**

Heat  $Q$

Heat Transfer Rate  $\dot{Q}$

**1.37. Mechanical Properties**

Work  $W$

Power  $P$

**1.38. Fluid Properties**

Reynolds Number  $Re$

Froude Number  $Fr = \frac{v}{\sqrt{gD}}$

**1.39. Heat Properties**

Thermal Efficiency  $\eta_{th}$

Thermal Efficiency  $\eta_{carnot}$

**1.40. Mechanical Properties**

Factor of Safety  $n$

Factor of Safety  $n$

**1.41. Fluid Properties**

Flow Coefficient  $C_d$

Flow Coefficient  $C_v$

**1.42. Heat Properties**

Heat Transfer Coefficient  $h$

Heat Transfer Coefficient  $h_c$

**1.43. Mechanical Properties**

Stress Intensity Factor  $K_{Ic}$

Stress Intensity Factor  $K_{Ic}$

**1.44. Fluid Properties**

Flow Velocity  $v$

Flow Velocity  $v$

**1.45. Heat Properties**

Thermal Conductivity  $k$

Thermal Conductivity  $k$

**1.46. Mechanical Properties**

Modulus of Elasticity  $E$

Modulus of Elasticity  $E$

**1.47. Fluid Properties**

Density  $\rho$

Density  $\rho$

**1.48. Heat Properties**

Specific Heat  $c_p$

Specific Heat  $c_p$

**1.49. Mechanical Properties**

Stress  $\sigma$

Stress  $\sigma$

**1.50. Fluid Properties**

Flow Rate  $Q$

Flow Rate  $Q$

**1.51. Heat Properties**

Temperature  $T$

Temperature  $T$

**1.52. Mechanical Properties**

Force  $F$

Force  $F$

**1.53. Fluid Properties**

Pressure  $P$

Pressure  $P$

**1.54. Heat Properties**

Heat  $Q$

Heat  $Q$

**1.55. Mechanical Properties**

Work  $W$

Work  $W$

**1.56. Fluid Properties**

Reynolds Number  $Re$

Reynolds Number  $Re$

**1.57. Heat Properties**

Thermal Efficiency  $\eta_{th}$

Thermal Efficiency  $\eta_{th}$

**1.58. Mechanical Properties**

Factor of Safety  $n$

Factor of Safety  $n$

**1.59. Fluid Properties**

Flow Coefficient  $C_d$

Flow Coefficient  $C_d$

**1.60. Heat Properties**

Heat Transfer Coefficient  $h$

Heat Transfer Coefficient  $h$

**1.61. Mechanical Properties**

Stress Intensity Factor  $K_{Ic}$

Stress Intensity Factor  $K_{Ic}$

**1.62. Fluid Properties**

Flow Velocity  $v$

Flow Velocity  $v$

**1.63. Heat Properties**

Thermal Conductivity  $k$

Thermal Conductivity  $k$

**1.64. Mechanical Properties**

Modulus of Elasticity  $E$

Modulus of Elasticity  $E$

**1.65. Fluid Properties**

Density  $\rho$

Density  $\rho$

**1.66. Heat Properties**

Specific Heat  $c_p$

Specific Heat  $c_p$

**1.67. Mechanical Properties**

Stress  $\sigma$

Stress  $\sigma$

**1.68. Fluid Properties**

Flow Rate  $Q$

Flow Rate  $Q$

**1.69. Heat Properties**

Temperature  $T$

Temperature  $T$

**1.70. Mechanical Properties**

Force  $F$

Force  $F$

**1.71. Fluid Properties**

Pressure  $P$

Pressure  $P$

**1.72. Heat Properties**

Heat  $Q$

Heat  $Q$

**1.73. Mechanical Properties**

Work  $W$

Work  $W$

**1.74. Fluid Properties**

Reynolds Number  $Re$

Reynolds Number  $Re$

**1.75. Heat Properties**

Thermal Efficiency  $\eta_{th}$

Thermal Efficiency  $\eta_{th}$

**1.76. Mechanical Properties**

Factor of Safety  $n$

Factor of Safety  $n$

**1.77. Fluid Properties**

Flow Coefficient  $C_d$

Flow Coefficient  $C_d$

**1.78. Heat Properties**

Heat Transfer Coefficient  $h$

Heat Transfer Coefficient  $h$

**1.79. Mechanical Properties**

Stress Intensity Factor  $K_{Ic}$

Stress Intensity Factor  $K_{Ic}$

**1.80. Fluid Properties**

Flow Velocity  $v$

Flow Velocity  $v$

**1.81. Heat Properties**

Thermal Conductivity  $k$

Thermal Conductivity  $k$

**1.82. Mechanical Properties**

Modulus of Elasticity  $E$

Modulus of Elasticity  $E$

**1.83. Fluid Properties**

Density  $\rho$

Density  $\rho$

**1.84. Heat Properties**

Specific Heat  $c_p$

Specific Heat  $c_p$

**1.85. Mechanical Properties**

Stress  $\sigma$

Stress  $\sigma$

**1.86. Fluid Properties**

Flow Rate  $Q$

Flow Rate  $Q$

**1.87. Heat Properties**

Temperature  $T$

Temperature  $T$

**1.88. Mechanical Properties**

Force  $F$

Force  $F$

**1.89. Fluid Properties**

Pressure  $P$

Pressure  $P$

**1.90. Heat Properties**

Heat  $Q$

Heat  $Q$

**1.91. Mechanical Properties**

Work  $W$

Work  $W$

**1.92. Fluid Properties**

Reynolds Number  $Re$

Reynolds Number  $Re$

**1.93. Heat Properties**

Thermal Efficiency  $\eta_{th}$

Thermal Efficiency  $\eta_{th}$

**1.94. Mechanical Properties**

Factor of Safety  $n$

Factor of Safety  $n$

**1.95. Fluid Properties**

Flow Coefficient  $C_d$

Flow Coefficient  $C_d$

**1.96. Heat Properties**

Heat Transfer Coefficient  $h$

Heat Transfer Coefficient  $h$

**1.97. Mechanical Properties**

Stress Intensity Factor  $K_{Ic}$

Stress Intensity Factor  $K_{Ic}$

**1.98. Fluid Properties**

Flow Velocity  $v$

Flow Velocity  $v$

**1.99. Heat Properties**

Thermal Conductivity  $k$

Thermal Conductivity  $k$

**2.00. Mechanical Properties**

Modulus of Elasticity  $E$

Modulus of Elasticity  $E$

# Mechanical Engineering Formula

**PT Brinkman**



## **Mechanical Engineering Formula:**

Mechanical Engineering Formulas Pocket Guide Tyler G. Hicks,2003-02-19 THOUSANDS OF MECHANICAL ENGINEERING FORMULAS IN YOUR POCKET AND AT YOUR FINGERTIPS This portable find it now reference contains thousands of indispensable formulas mechanical engineers need for day to day practice It s all here in one compact resource everything from HVAC to stress and vibration equations measuring fatigue bearings gear design simple mechanics and more Compiled by a professional engineer with many years experience the Pocket Guide includes common conversions symbols and vital calculations data You ll find just what you need to solve your problems quickly easily and accurately *Mechanical Engineering* Navy Feroz,2019-10-17 A handbook of Mechanical Engineering For Formulas Mechanical Engineering Formulas all subjects formulas with concepts and course outlines are given here Select your desired course and you can revise all the Formulas within an hour only When you are a mechanical engineer you need to know the important formulas during the competitive exams like GATE ESE and other exams to solve the answers easily using the formula So you must know the all important formulas in the mechanical engineering Subjects This book is specially prepared for mechanical engineers Topics Inside Book Si multiples Basic units distance area volume mass density Thermodynamics Thermal engineering Heat transfer Fluid mechanics Strength of materials Theory of machines Machine design Manufacturing Industrial engineering Get the free kindle version of this book by purchasing the Paperback **A Pocket-book of Mechanical Engineering** Charles MacCaughey Sames,1906 **Engineering Formulas** Kurt Gieck,Reiner Gieck,2006-06-26 Presents an engineering guide containing a variety of mathematical and technical formulas and equations **The Mechanical Engineer's Reference Book** Henry Harrison Suplee,1907 The Mechanical Engineer's Reference Book Henry Harrison Suplee,1904

**Mechanical Engineering Formulas Pocket Guide** Tyler G. Hicks,2003-02-19 Designed with an on the go format this indispensable guide puts thousands of formulas in the palm of your hand Contains a broad range of formulas everything from HVAC Heating Ventilation Air Conditioning to stress and vibration equations all for measuring fatigue load bearing gear design and simple mechanisms An easy to use guide for all types of mechanics and engineers **Mathematics for Mechanical Engineers** Frank Kreith,William F. Ames,George Cain,Y. L. Tong,W. Glenn Steele,Hugh W. Coleman,Richard L. Kautz,Dan M. Frangopol,Paul Norton,2022-03-30 Mathematics for Mechanical Engineers gives mechanical engineers convenient access to the essential problem solving tools that they use each day It covers applications employed in many different facets of mechanical engineering from basic through advanced to ensure that you will easily find answers you need in this handy guide For the engineer venturing out of familiar territory the chapters cover fundamentals like physical constants derivatives integrals Fourier transforms Bessel functions and Legendre functions For the experts it includes thorough sections on the more advanced topics of partial differential equations approximation methods and numerical methods often used in applications The guide reviews statistics for analyzing engineering data and making inferences so

professionals can extract useful information even with the presence of randomness and uncertainty The convenient Mathematics for Mechanical Engineers is an indispensable summary of mathematics processes needed by engineers

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*A Pocket-book of Mechanical Engineering, Tables, Data, Formulas, Theory, and Examples* Charles M. Sames,1911

*Engineering Formulas for Metalcutting* Edmund Isakov,2004 A unique and handy resource Engineering Formulas for Metalcutting will enable users to calculate necessary speeds feeds and required machining power in order to maximize the productivity of cutting Providing information on formulas and their applications in a concise and clearly arranged format it describes mechanical properties of the most popular work materials such as steels cast irons and nonferrous alloys And it offers numerous formulas for calculating speeds feeds cutting forces and machining power What s more practical examples of calculating the variety of such cutting parameters will make this a valuable source of knowledge in training and practice Features Linear regression equations for converting Rockwell Vickers Knoop and Scleroscope hardness numbers into Brinell hardness numbers Formulas and linear regression equations for calculating ultimate tensile strength of the most commonly used work materials in relationship with their hardness Formulas for calculating the number of inserts simultaneously engaged with the workpiece depending on milling conditions Formulas to calculate machining time when facing cutoff and

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**Formulas for Mechanical and Structural Shock and Impact** Gregory Szuladzinski,2009-10-15 In dealing with extreme loads on structures simple approximations of key variables can indicate if there is a threat of collapse The ability to determine such variables early on strongly impacts the decisions about the engineering approach to adopt Formulas for Mechanical and Structural Shock and Impact is a self contained and concise presentati

*A Pocket-Book of Mechanical Engineering* Charles Maccaughey Sames,2023-07-18 This concise reference guide is an essential tool for mechanical engineers technicians and students It contains a wealth of information on mechanics thermodynamics materials science and other key areas of mechanical engineering Whether you re in the classroom or the workshop this pocket sized book is an indispensable resource This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

**Mark's Calculations For Machine Design** Thomas H. Brown,2005-02-24 Everyday Engineers must solve some of the most difficult design problems and often with little time and money to spare It was with this in mind that this book was designed Based on the best selling Mark s Standard Handbook for Mechanical Engineers Mark s Standard Engineering Calculations For Machine Design offers a detailed treatment of topics in statics friction kinematics dynamics energy relations impulse and momentum systems of particles variable mass systems and three dimensional rigid body analysis Among the advanced topics are spherical coordinates shear modulus tangential unit vector tension deformable media and torsion twisting

*Journal of the Association of Engineering Societies* Association of Engineering Societies (U.S.),1901

*Civil Engineering Formulas* Tyler Gregory Hicks,2001 Indispensable portable reference for all practicing civil engineers and students Now you can get a single compilation of all essential civil engineering formulas and equations in one easy to use portable reference More than three quarters of the material in Tyler Hicks Civil Engineering Formulas Pocket Guide is in the form of formulas tables and graphs presented in SI and USCS formats Each chapter offering collections of problems and calculations gives you quick reference to a well defined topic Conversion Factors for Civil Engineering Practice Beam Formulas Column Formulas Piles and Piling Formulas Concrete Formulas Timber Engineering Formulas Surveying Formulas Soil and Earthwork Formulas Building and Structures Formulas Bridge and Suspension Cable Formulas Highway and Road Formulas Hydraulics and Waterworks Formulas

[The Elements](#)

of Mechanical Engineering International Correspondence Schools,1897

## **Mechanical Engineering Formula** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Mechanical Engineering Formula**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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