

# ENGINEERING THERMODYNAMICS EQUATION SHEET

ENGINEERING THERMODYNAMICS EQUATION SHEET ENGINEERING THERMODYNAMICS EQUATION SHEET YOUR POCKET GUIDE TO ENERGY MASTERY THIS COMPREHENSIVE EQUATION SHEET SERVES AS A VALUABLE RESOURCE FOR STUDENTS AND PROFESSIONALS IN THE FIELD OF ENGINEERING THERMODYNAMICS IT PROVIDES A CONCISE COMPILATION OF ESSENTIAL EQUATIONS DEFINITIONS AND CONCEPTS ENCOMPASSING KEY AREAS OF THERMODYNAMICS INCLUDING FUNDAMENTALS LAWS OF THERMODYNAMICS ENERGY CONSERVATION WORK HEAT SPECIFIC HEATS ENTHALPY INTERNAL ENERGY AND ENTROPY THERMODYNAMIC CYCLES CARNOT CYCLE RANKINE CYCLE BRAYTON CYCLE OTTO CYCLE AND DIESEL CYCLE FLUID MECHANICS PROPERTIES OF FLUIDS PRESSURE DENSITY VISCOSITY COMPRESSIBILITY BUOYANCY BERNOULLI'S EQUATION AND FLUID FLOW EQUATIONS HEAT TRANSFER CONDUCTION CONVECTION RADIATION HEAT TRANSFER COEFFICIENTS AND THERMAL RESISTANCE THERMODYNAMIC PROPERTIES IDEAL GAS LAW VAN DER WAALS EQUATION COMPRESSIBILITY FACTOR AND STEAM TABLES THERMODYNAMICS ENGINEERING EQUATION SHEET HEAT TRANSFER FLUID MECHANICS THERMODYNAMICS CYCLES PROPERTIES LAWS FORMULAS CONCEPTS THIS EQUATION SHEET PROVIDES A PRACTICAL AND ORGANIZED RESOURCE FOR UNDERSTANDING AND APPLYING FUNDAMENTAL CONCEPTS IN ENGINEERING THERMODYNAMICS IT COVERS A WIDE RANGE OF TOPICS FROM BASIC DEFINITIONS TO COMPLEX THERMODYNAMIC CYCLES AND HEAT TRANSFER MECHANISMS THE CLEAR LAYOUT AND DETAILED EXPLANATIONS MAKE IT AN INVALUABLE TOOL FOR STUDENTS ENGINEERS AND ANYONE WORKING WITH THERMODYNAMIC PRINCIPLES CONCLUSION UNDERSTANDING THERMODYNAMICS IS ESSENTIAL FOR TACKLING THE CHALLENGES OF A RAPIDLY EVOLVING TECHNOLOGICAL LANDSCAPE THIS EQUATION SHEET EMPOWERS YOU TO DECIPHER THE INTRICATE LANGUAGE OF ENERGY PAVING THE WAY FOR INNOVATIVE SOLUTIONS IN DIVERSE FIELDS FROM POWER GENERATION TO RENEWABLE ENERGY SYSTEMS AND BEYOND REMEMBER THE PURSUIT OF THERMODYNAMIC KNOWLEDGE IS NOT MERELY ABOUT MEMORIZING EQUATIONS ITS ABOUT UNLOCKING THE SECRETS OF ENERGY TRANSFORMATION AND HARNESSING ITS POTENTIAL TO SHAPE A SUSTAINABLE FUTURE FREQUENTLY ASKED QUESTIONS FAQs 1 WHY DO I NEED THIS EQUATION SHEET THIS EQUATION SHEET SERVES AS A QUICK REFERENCE GUIDE ALLOWING YOU TO EASILY ACCESS CRITICAL INFORMATION AND FORMULAS RELEVANT TO ENGINEERING THERMODYNAMICS IT CAN BE PARTICULARLY HELPFUL DURING EXAMS PROBLEMSOLVING SESSIONS OR WHEN REVIEWING KEY CONCEPTS 2 WHAT ARE THE KEY ADVANTAGES OF USING THIS EQUATION SHEET THIS EQUATION SHEET IS DESIGNED TO BE USERFRIENDLY PROVIDING A STRUCTURED AND CONCISE OVERVIEW OF ESSENTIAL THERMODYNAMIC CONCEPTS ITS COMPREHENSIVE NATURE ENCOMPASSES A WIDE RANGE OF TOPICS MAKING IT A VALUABLE TOOL FOR BOTH BEGINNERS AND SEASONED PROFESSIONALS 3 HOW DO I EFFECTIVELY USE THIS EQUATION SHEET THE EQUATION SHEET SHOULD BE USED AS A SUPPLEMENT TO YOUR TEXTBOOK AND LECTURE NOTES FAMILIARIZE YOURSELF WITH THE DEFINITIONS AND EQUATIONS AND PRACTICE APPLYING THEM TO VARIOUS PROBLEMS REGULARLY REFERRING TO THE SHEET CAN HELP SOLIDIFY YOUR UNDERSTANDING OF FUNDAMENTAL PRINCIPLES 4 CAN I RELY SOLELY ON THIS EQUATION SHEET FOR MY LEARNING WHILE THIS EQUATION SHEET CAN BE A VALUABLE RESOURCE IT SHOULD NOT REPLACE INDEPTH STUDY AND UNDERSTANDING OF THERMODYNAMICS IT IS CRUCIAL TO GRASP THE UNDERLYING CONCEPTS AND DERIVATIONS BEHIND THESE EQUATIONS FOR TRUE COMPREHENSION AND APPLICATION 5 WHERE CAN I FIND MORE INFORMATION ABOUT SPECIFIC TOPICS COVERED IN THE SHEET THIS EQUATION SHEET PROVIDES A CONCISE OVERVIEW FOR MORE DETAILED INFORMATION CONSULT RELEVANT TEXTBOOKS SCIENTIFIC PAPERS AND ONLINE RESOURCES ADDITIONALLY SEEKING GUIDANCE FROM EXPERIENCED PROFESSIONALS OR TUTORS CAN FURTHER ENHANCE YOUR UNDERSTANDING THE EQUATION SHEET 1 BASIC DEFINITIONS AND CONCEPTS TEMPERATURE  $T$  A MEASURE OF THE AVERAGE KINETIC ENERGY OF THE MOLECULES IN A SUBSTANCE UNIT KELVIN  $K$  CELSIUS  $C$  FAHRENHEIT  $F$  PRESSURE  $P$  FORCE EXERTED PER UNIT AREA UNIT PASCAL  $Pa$  BAR ATMOSPHERE  $ATM$  3 VOLUME  $V$  THE AMOUNT OF SPACE A SUBSTANCE OCCUPIES UNIT CUBIC METER  $m^3$  LITER  $L$  MASS  $m$  THE AMOUNT OF MATTER IN A SUBSTANCE UNIT KILOGRAM  $kg$  DENSITY MASS PER UNIT VOLUME UNIT  $kg/m^3$  SPECIFIC VOLUME  $v$  VOLUME PER UNIT MASS UNIT  $m^3/kg$  SPECIFIC HEAT  $c$  THE AMOUNT OF HEAT REQUIRED TO RAISE THE TEMPERATURE OF ONE UNIT MASS OF A SUBSTANCE BY ONE DEGREE CELSIUS UNIT  $J/kgK$  ENTHALPY  $H$  TOTAL ENERGY CONTENT OF A SYSTEM UNIT JOULE  $J$  INTERNAL ENERGY  $U$  ENERGY ASSOCIATED WITH THE INTERNAL MOTION OF MOLECULES WITHIN A SYSTEM UNIT JOULE  $J$  ENTROPY  $S$  A MEASURE OF DISORDER OR RANDOMNESS IN A SYSTEM UNIT JOULE PER KELVIN  $J/K$  2 LAWS OF THERMODYNAMICS ZEROth LAW OF THERMODYNAMICS TWO SYSTEMS IN THERMAL EQUILIBRIUM WITH A THIRD SYSTEM ARE IN THERMAL EQUILIBRIUM WITH EACH OTHER FIRST LAW OF THERMODYNAMICS ENERGY CANNOT BE CREATED OR DESTROYED ONLY TRANSFORMED FROM ONE FORM TO ANOTHER SECOND LAW OF THERMODYNAMICS HEAT FLOWS SPONTANEOUSLY FROM A HOTTER BODY TO A COLDER BODY THIRD LAW OF THERMODYNAMICS ENTROPY APPROACHES A CONSTANT VALUE AS TEMPERATURE APPROACHES ABSOLUTE ZERO 3 ENERGY CONSERVATION ENERGY BALANCE EQUATION  $Q = W + U$  KE PE Q HEAT TRANSFER TO THE SYSTEM W WORK DONE BY THE SYSTEM U CHANGE IN INTERNAL ENERGY KE CHANGE IN KINETIC ENERGY PE CHANGE IN POTENTIAL ENERGY WORK  $W = F \cdot d$  FORCE MULTIPLIED BY DISTANCE UNIT JOULE  $J$  BOUNDARY WORK WORK DONE BY A

SYSTEM DUE TO EXPANSION OR COMPRESSION SHAFT WORK WORK DONE BY A ROTATING SHAFT HEAT  $Q$  TRANSFER OF THERMAL ENERGY BETWEEN SYSTEMS AT DIFFERENT TEMPERATURES UNIT JOULE  $J$   
 CONDUCTION HEAT TRANSFER THROUGH DIRECT CONTACT CONVECTION HEAT TRANSFER THROUGH THE MOVEMENT OF FLUIDS RADIATION HEAT TRANSFER THROUGH ELECTROMAGNETIC WAVES 4 4  
 THERMODYNAMIC CYCLES CARNOT CYCLE A THEORETICAL THERMODYNAMIC CYCLE WITH THE HIGHEST POSSIBLE EFFICIENCY EFFICIENCY  $1 - T_c/T_h$   $T_c$  TEMPERATURE OF THE COLD RESERVOIR  $T_h$  TEMPERATURE OF  
 THE HOT RESERVOIR RANKINE CYCLE A THERMODYNAMIC CYCLE USED FOR POWER GENERATION IN STEAM POWER PLANTS BRAYTON CYCLE A THERMODYNAMIC CYCLE USED FOR POWER GENERATION IN GAS TURBINES  
 OTTO CYCLE A THERMODYNAMIC CYCLE USED FOR INTERNAL COMBUSTION ENGINES WITH SPARK IGNITION DIESEL CYCLE A THERMODYNAMIC CYCLE USED FOR INTERNAL COMBUSTION ENGINES WITH COMPRESSION  
 IGNITION 5 FLUID MECHANICS PRESSURE  $P$  FORCE EXERTED PER UNIT AREA UNIT PASCAL  $Pa$  BAR ATMOSPHERE  $ATM$  DENSITY MASS PER UNIT VOLUME UNIT  $kg/m^3$  VISCOSITY A MEASURE OF A FLUIDS RESISTANCE TO  
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 EQUATION A FUNDAMENTAL EQUATION IN FLUID MECHANICS THAT RELATES PRESSURE VELOCITY AND ELEVATION 6 HEAT TRANSFER CONDUCTION HEAT TRANSFER THROUGH DIRECT CONTACT FOURIERS LAW  $Q = kA \Delta T / dx$   
 $Q$  HEAT TRANSFER RATE  $k$  THERMAL CONDUCTIVITY  $A$  AREA OF HEAT TRANSFER  $dT/dx$  TEMPERATURE GRADIENT CONVECTION HEAT TRANSFER THROUGH THE MOVEMENT OF FLUIDS NEWTONS LAW OF  
 COOLING  $Q = hA(T_s - T_f)$   $T_s$  SURFACE TEMPERATURE  $T_f$  FLUID TEMPERATURE RADIATION HEAT TRANSFER THROUGH ELECTROMAGNETIC WAVES STEFAN-BOLTZMANN LAW  $Q = \epsilon A T_s^4 - T_f^4$   
 $\epsilon$  STEFAN-BOLTZMANN CONSTANT EMISSIVITY  $A$  AREA OF HEAT TRANSFER  $T_s$  SURFACE TEMPERATURE  $T_f$  SURROUNDINGS TEMPERATURE 7 THERMODYNAMIC  
 PROPERTIES IDEAL GAS LAW  $PV = nRT$   $P$  PRESSURE  $V$  VOLUME  $n$  NUMBER OF MOLES  $R$  IDEAL GAS CONSTANT  $T$  TEMPERATURE VAN DER WAALS EQUATION  $P = nRT / (V - nb) - a(n/V)^2$   
 $a$   $b$  VAN DER WAALS CONSTANTS COMPRESSIBILITY FACTOR  $Z$  A MEASURE OF THE DEVIATION OF A REAL GAS FROM IDEAL GAS BEHAVIOR UNIT DIMENSIONLESS STEAM TABLES TABLES THAT PROVIDE THERMODYNAMIC PROPERTIES OF WATER AND  
 STEAM AT VARIOUS TEMPERATURES AND PRESSURES 8 OTHER IMPORTANT EQUATIONS ENTHALPY CHANGE  $H = H(T) + Q - W$  ENTROPY CHANGE  $S = S(T) + Q/T$  GIBBS FREE ENERGY  $G = G(T, P)$  THIS EQUATION SHEET PROVIDES A  
 FOUNDATIONAL UNDERSTANDING OF ENGINEERING THERMODYNAMICS FURTHER EXPLORATION AND APPLICATION OF THESE CONCEPTS ARE NECESSARY TO GAIN DEEPER INSIGHTS INTO THE FASCINATING WORLD OF  
 ENERGY AND ITS TRANSFORMATIONS

THERMODYNAMICS WIKIPEDIA THERMODYNAMICS LAWS DEFINITION EQUATIONS BRITANNICA THERMODYNAMICS IN PHYSICS LAWS HEAT WORK AND ENERGY EXPLAINED INTRODUCTION TO THERMODYNAMICS AN  
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THERMODYNAMICS IS A BRANCH OF PHYSICS THAT DEALS WITH HEAT WORK AND TEMPERATURE AND THEIR RELATION TO ENERGY ENTROPY AND THE PHYSICAL PROPERTIES OF MATTER AND RADIATION

MAR 1 2026 THERMODYNAMICS IS THE STUDY OF THE RELATIONS BETWEEN HEAT WORK TEMPERATURE AND ENERGY THE LAWS OF THERMODYNAMICS DESCRIBE HOW THE ENERGY IN A SYSTEM CHANGES AND  
 WHETHER THE

WHAT IS THERMODYNAMICS THERMODYNAMICS IS THE BRANCH OF PHYSICS THAT DEALS WITH THE RELATIONSHIP BETWEEN HEAT WORK TEMPERATURE AND ENERGY IT EXPLAINS HOW ENERGY CHANGES FROM ONE FORM  
 TO

THIS IS A PHYSICAL SCIENCE TEXT INTENDED FOR NON SCIENCE MAJORS THAT COVERS INTRODUCTORY CHEMISTRY AND PHYSICS TOPICS DEVELOPED USING MATERIALS FROM MULTIPLE SOURCES INCLUDING OPENSTAX

COLLEGE

THERMODYNAMICS IS THE STUDY OF HOW HEAT MOVES AROUND IN MACROSCOPIC OBJECTS THROUGH OUT THESE LECTURES WE WILL TALK A LOT ABOUT LAWS AND MODELS MODELS ARE A SIMPLIFIED EMPIRICAL DESCRIPTION OF A

NOV 10 2025 THERMODYNAMICS IS ONE OF THE FOUNDATIONAL PILLARS OF PHYSICS A SCIENCE THAT EXPLORES THE RELATIONSHIP BETWEEN HEAT ENERGY AND WORK IT SEEKS TO UNDERSTAND HOW ENERGY MOVES AND

MAR 2 2023 THERMODYNAMICS IS A BRANCH OF PHYSICS WHICH DEALS WITH THE ENERGY AND WORK OF A SYSTEM IT WAS BORN IN THE 19TH CENTURY AS SCIENTISTS WERE FIRST DISCOVERING HOW TO BUILD AND OPERATE

THERMODYNAMICS IS A BRANCH OF PHYSICS THAT DEALS WITH THE RELATIONSHIPS BETWEEN HEAT AND OTHER FORMS OF ENERGY IT FUNDAMENTALLY EXPLORES HOW THERMAL ENERGY IS CONVERTED TO AND FROM OTHER TYPES OF

INTRODUCTION TO THERMODYNAMICS HEAT TRANSFER IS ENERGY IN TRANSIT AND IT CAN BE USED TO DO WORK IT CAN ALSO BE CONVERTED TO ANY OTHER FORM OF ENERGY A CAR ENGINE FOR EXAMPLE BURNS FUEL FOR HEAT TRANSFER

THERMODYNAMICS IS THE STUDY OF THE RELATIONSHIP BETWEEN HEAT OR ENERGY AND WORK IN OTHER WORDS THERMODYNAMICS LOOKS AT HOW WE CAN PUT ENERGY INTO A SYSTEM WHETHER IT IS A MACHINE OR A

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