

P2 - ENERGY TRANSFER BY HEATING 2.1 Energy transfer b

Aiming for Grade 4

What is meant by a "good thermal conductor"?

A material that allows heat to pass through it quickly

What is meant by a "good thermal insulator"?

A material that does not allow heat to pass through it quickly

List the materials in the most appropriate group

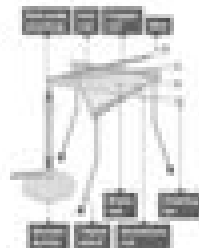
Copper, Glass, Plastic, Wood, Steel, Aluminium, Rubber, Brass

Good thermal conductor	Good thermal insulator
Copper Steel Aluminium Brass	Glass Plastic Wood Rubber

In the experiment, four metal rods are with a blob of wax and a drawing pin on the end are heated at the other end with a Bunsen burner.

Rank in order which metal is the best thermal conductor.

Copper, Aluminium, Brass, Iron



How would you determine which metal is the best thermal conductor?

The metal whose wax melted first and the pin dropped first

Assessment
Grade 4

Aiming for Grade 6

An experiment was carried out where metal cans containing hot water were allowed to cool. Each can had a different insulating material wrapped around them.

Here are the results:

Insulator	Starting temperature ($^{\circ}\text{C}$)	Temperature after 300s ($^{\circ}\text{C}$)
Paper	60	51
Cotton wool	60	56
Foil	60	49
Felt	60	54

Which material is the most conductive?

Foil

Which material is the most insulating?

Cotton wool

When a substance is heated, what happens to the particles?

The particles vibrate more and move around more. They gain kinetic energy

A good insulator needs to be a material with low thermal conductivity. This means that thermal energy transfer is as low as possible.

Metals are good conductors but plastics are good insulators so are a good choice for making insulating materials.

Metals, Conductivity, Plastics, energy, low

Assessment
Grade 6

- I can analyse temperature change data to compare the thermal conductivity of materials. ☐

Aiming

Use the diagram to explain thermal conductors. Use electrons, ions, lattice thermal energy



Thermal energy and the free electrons in the metal lattice vibrate more and move around more. The ions vibrate more and move around more through the metal.

Explain what is meant by Similar results can be obtained from an experiment with the same materials. Explain what is meant by Similar results can be obtained from the same or a different experiment.

Explain why you would use a copper bottom and a plastic handle on a cooking pan. Copper is more conductive than plastic. The metal conducts the heat to the cooking food. The plastic handle is an insulator so it does not get hot and can be picked up safely.

Assessment
Grade 8

Grade 1physics P2 June 2014

Jose Angel Pelaez,Jouni Rattya



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Magnetic Fusion Energy George Neilson,2016-06-02 Magnetic Fusion Energy From Experiments to Power Plants is a timely exploration of the field giving readers an understanding of the experiments that brought us to the threshold of the ITER era as well as the physics and technology research needed to take us beyond ITER to commercial fusion power plants With the start of ITER construction the world s magnetic fusion energy MFE enterprise has begun a new era The ITER scientific and technical S T basis is the result of research on many fusion plasma physics experiments over a period of decades Besides ITER the scope of fusion research must be broadened to create the S T basis for practical fusion power plants systems that will continuously convert the energy released from a burning plasma to usable electricity operating for years with only occasional interruptions for scheduled maintenance Provides researchers in academia and industry with an authoritative overview of the significant fusion energy experiments Considers the pathway towards future development of magnetic fusion energy power plants Contains experts contributions from editors and others who are well known in the field

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Personal data markets Wireless ad hoc and sensor networks Database and system security Application of spatial information system Other related areas Control Engineering and Information Systems provides a valuable source of information for scholars researchers and academics in control engineering and information systems

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2015-01-26 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i.e. representation theory algebraic geometry infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear PDE special functions and others Furthermore the necessary tools from functional analysis and number theory are included This is a big interdisciplinary and interrelated field Samples of these fresh trends are presented in this volume based on contributions from the Workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2013 This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists and researchers in the field of Lie Theory

IGC 2018 Paolo Manunta, Nining Indroyono Soesil, Hesti Meilina, Yunardi, 2018 The conference is hosted by Program Pascasarjana Universitas Syiah Kuala recognizably abbreviated as PPs UNSYIAH the largest and the oldest national university in Aceh The IGC will provide an excellent opportunity for academics teachers students educators researchers and education stakeholders to share knowledge and research findings as well as to present ideas raising awareness of the Sustainable Development Goals to promote research and action in Innovation Creativity Digital and technopreneurship for Sustainable Development and technological Contexts

Geometric Methods in Physics Piotr Kielanowski, Pierre Bieliavsky, Alexander Odesskii, Anatol Odziejewicz, Martin Schlichenmaier, Theodore Voronov, 2014-08-19 The Biaowie Workshops on Geometric Methods in Physics which are hosted in the unique setting of the Biaowie natural forest in Poland are among the most important meetings in the field Every year some 80 to 100 participants from both the mathematics and physics world join to discuss new developments and to exchange ideas The current volume was produced on the occasion of the 32nd meeting in 2013 It is now becoming a tradition that the Workshop is followed by a School on Geometry and Physics which consists of advanced lectures for graduate students and young researchers Selected speakers at the 2013 Workshop were asked to contribute to this book and their work was supplemented by additional review articles The selection shows that despite its now long tradition the workshop remains at the cutting edge of research The 2013 Workshop also celebrated the 75th birthday of Daniel Sternheimer and on this occasion the discussion mainly focused on his contributions to mathematical physics such as deformation quantization Poisson geometry symplectic geometry and non commutative differential geometry

Nonlinear Fractional Schrödinger Equations in \mathbb{R}^N Vincenzo Ambrosio, 2021-04-19 This monograph presents recent results concerning nonlinear fractional

elliptic problems in the whole space More precisely it investigates the existence multiplicity and qualitative properties of solutions for fractional Schrödinger equations by applying suitable variational and topological methods The book is mainly intended for researchers in pure and applied mathematics physics mechanics and engineering However the material will also be useful for students in higher semesters and young researchers as well as experienced specialists working in the field of nonlocal PDEs This is the first book to approach fractional nonlinear Schrödinger equations by applying variational and topological methods Journal of the Physical Society of Japan ,2014 Official Gazette Philippines,2004 *Antenna Theory* Constantine A. Balanis,2016-02-01 Updated with color and gray scale illustrations a companion website housing supplementary material and new sections covering recent developments in antenna analysis and design This book introduces the fundamental principles of antenna theory and explains how to apply them to the analysis design and measurements of antennas Due to the variety of methods of analysis and design and the different antenna structures available the applications covered in this book are made to some of the most basic and practical antenna configurations Among these antenna configurations are linear dipoles loops arrays broadband antennas aperture antennas horns microstrip antennas and reflector antennas The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design Readers should have a basic knowledge of undergraduate electromagnetic theory including Maxwell's equations and the wave equation introductory physics and differential and integral calculus Presents new sections on flexible and conformal bowtie Vivaldi antenna antenna miniaturization antennas for mobile communications dielectric resonator antennas and scale modeling Provides color and gray scale figures and illustrations to better depict antenna radiation characteristics Includes access to a companion website housing MATLAB programs Java based applets and animations Power Point notes Java based interactive questionnaires and a solutions manual for instructors Introduces over 100 additional end of chapter problems *Antenna Theory Analysis and Design* Fourth Edition is designed to meet the needs of senior undergraduate and beginning graduate level students in electrical engineering and physics as well as practicing engineers and antenna designers Constantine A Balanis received his BSEE degree from the Virginia Tech in 1964 his MEE degree from the University of Virginia in 1966 his PhD in Electrical Engineering from The Ohio State University in 1969 and an Honorary Doctorate from the Aristotle University of Thessaloniki in 2004 From 1964 to 1970 he was with the NASA Langley Research Center in Hampton VA and from 1970 to 1983 he was with the Department of Electrical Engineering of West Virginia University In 1983 he joined Arizona State University and is now Regents Professor of Electrical Engineering Dr Balanis is also a life fellow of the IEEE **Broadening the Use of Machine Learning in Hydrology** Chaopeng Shen,Eric Laloy,Xingyuan Chen,2021-07-08 *Water is Life* Hellum, Anne,Kameri-Mbote, Patricia,2015-10-19 This book approached water and sanitation as an African gender and human rights issue Empirical case studies from Kenya Malawi South Africa and Zimbabwe show how coexisting international national and

local regulations of water and sanitation respond to the ways in which different groups of rural and urban women gain access to water for personal domestic and livelihood purposes The authors who are lawyers sociologists political scientists and anthropologists explore how women cope in contexts where they lack secure rights and participation in water governance institutions formal and informal The research shows how women as producers of family food rely on water from multiple sources that are governed by community based norms and institutions which recognise the right to water for livelihood How these common pool water resources due to protection gaps in both international and national law are threatened by large scale development and commercialisation initiatives facilitated through national permit systems is a key concern The studies demonstrate that existing water governance structures lack mechanisms which make them accountable to poor and vulnerable water users on the ground most importantly women The findings thus underscore the need to intensify measures to hold states accountable not just in water services provision but in assuring the basic human right to clean drinking water and sanitation and also to protect water for livelihoods

Comparative Politics Daniele Caramani, 2020 *Comparative Politics* provides a comprehensive introduction to political systems around the world It covers methods and theories the nation state institutions actors and processes policies and recent changes

Evolutionary and Deterministic Methods for Design Optimization and Control With Applications to Industrial and Societal Problems Esther Andrés-Pérez, Leo M. González, Jacques Periaux, Nicolas Gauger, Domenico Quagliarella, Kyriakos Giannakoglou, 2018-09-06 This book contains thirty five selected papers presented at the International Conference on Evolutionary and Deterministic Methods for Design Optimization and Control with Applications to Industrial and Societal Problems EUROGEN 2017 This was one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences ECCOMAS Topics treated in the various chapters reflect the state of the art in theoretical and numerical methods and tools for optimization and engineering design and societal applications The volume focuses particularly on intelligent systems for multidisciplinary design optimization mdo problems based on multi hybridized software adjoint based and one shot methods uncertainty quantification and optimization multidisciplinary design optimization applications of game theory to industrial optimization problems applications in structural and civil engineering optimum design and surrogate models based optimization methods in aerodynamic design

Princeton Alumni Weekly, 2008 *25 Years of Transformations of Higher Education Systems in Post-Soviet Countries* Jeroen Huisman, Anna Smolentseva, Isak Froumin, 2018-04-24 This book is open access under a CC BY 4.0 license This open access book is a result of the first ever study of the transformations of the higher education institutional landscape in fifteen former USSR countries after the dissolution of the Soviet Union in 1991 It explores how the single Soviet model that developed across the vast and diverse territory of the Soviet Union over several decades has evolved into fifteen unique national systems systems that have responded to national and global developments while still bearing some traces of the past The book is distinctive as it presents a comprehensive analysis of the reforms and transformations in

the region in the last 25 years and it focuses on institutional landscape through the evolution of the institutional types established and developed in Pre Soviet Soviet and Post Soviet time It also embraces all fifteen countries of the former USSR and provides a comparative analysis of transformations of institutional landscape across Post Soviet systems It will be highly relevant for students and researchers in the fields of higher education and and sociology particularly those with an interest in historical and comparative studies

Abstracts for the AGU Western Pacific Geophysics Meeting ,2008 **The National Union Catalog, Pre-1956 Imprints** Library of Congress,American Library Association. Committee on Resources of American Libraries. National Union Catalog Subcommittee,1973

Weighted Bergman Spaces Induced by Rapidly Increasing Weights Jose Angel Pelaez,Jouni Rattya,2014-01-08 This monograph is devoted to the study of the weighted Bergman space $A_{p,\omega}$ of the unit disc \mathbb{D} that is induced by a radial continuous weight ω satisfying $\lim_{r \rightarrow 1} \frac{1}{r} \int_r^1 \omega(s) ds = 0$ Every such $A_{p,\omega}$ lies between the Hardy space H^p and every classical weighted Bergman space $A_{p,\alpha}$ Even if it is well known that H^p is the limit of $A_{p,\alpha}$ as $\alpha \rightarrow 1$ in many respects it is shown that $A_{p,\omega}$ lies closer to H^p than any $A_{p,\alpha}$ and that several finer function theoretic properties of $A_{p,\alpha}$ do not carry over to $A_{p,\omega}$

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