

Part 1: Design

10 marks

1. **Identify listed issues:** Each learner in the group generates possible design ideas, then shares these ideas, providing as much detail as possible.
2. **Evaluate and design:** Teams evaluate individual design ideas and collectively develop a final design idea based on the strengths of each member's ideas.
3. **Design brief:** Write a design brief with detailed specifications for the final design idea, covering essential tasks or uses, materials, safety, and functionality.
4. **Flow chart:** Teams discuss how to proceed with the design and construction phases, and each learner creates a flowchart to outline the steps to be taken.

Part 2: Pricing and Bidding

10 marks

1. **Working drawings:** Each learner is responsible for creating detailed plan drawings for at least one of the ideas using first-angle orthographic projection. Ensure that you add a suitable scale, correct line types, and dimensions.
2. **Budget:** Prepare a budget for the "real-life" solution, including necessary materials and labour costs. Ensure that your budget is realistic and based on real market costs.
3. **Model of a viable solution:** Build a scale model of your final design idea. The model should be constructed neatly and show intelligent use of materials, design practice, safety, when working with tools and materials.

Part 3: Evaluation

10 marks

1. **Evaluation instrument:** Collaborate as a team to create an evaluation instrument. This instrument will be used to assess your team's solution and another team's solution. You will use this during the presentation phase.

Part 4: Communication

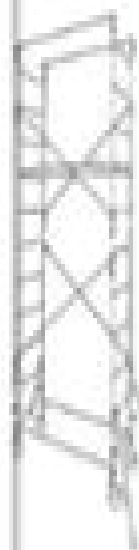
10 marks

1. **Team Presentation:** Teams will present their solution bid to the "tender board" (your teacher and classmates). Each team member must be responsible for presenting a specific aspect of the project. Your presentation should include drawings, plans, the budget, the model, and written responses.

Contractors

Design
Phase 1/2

10 marks



Name:

Class:

Grade 9 CAPS Technology

Mini-PAT

Community Issues – The Contractors

In this Mini-PAT (Practical Assessment Task), you will act as part of a contracting company competing for a contract to design and build a structure that addresses a problem facing a community. The project will focus on identifying a problem, investigating possible solutions, designing a structure, costing the project, and evaluating the final solution. You will be working in a group.

Instructions

Part 1: The Tender Process (Including Ethical Practices)

10 marks

1. **Scenario Introduction:** A community lives on a major river's far bank. The river is wide and deep, preventing the people from reaching the city on the opposite side. This means that the people cannot take advantage of the work opportunities, the excellent medical and educational facilities, and the wide range of shops available in the city.

2. **Investigation:** Teams discuss possible structures to solve

ink saving Eco

Technology Mini Pat Grade 9 2015

**Lea Harrington, Robert E. Bristow, Ian
F. Tannock, Richard Hill**



Technology Mini Pat Grade 9 2015:

Advanced Biofuel Technologies Deepak K. Tuli, Sangita Kasture, Arindam Kuila, 2021-12-08 Advanced Biofuel Technologies Present Status Challenges and Future Prospects deals with important issues such as feed stock availability technology options greenhouse gas reduction as seen by life cycle assessment studies regulations and policies This book provides readers complete information on the current state of developments in both thermochemical and biochemical processes for advanced biofuels production for the purpose of transportation domestic and industrial applications Chapters explore technological innovations in advanced biofuels produced from agricultural residues algae lipids and waste industrial gases to produce road transport fuels biojet fuel and biogas Covers technologies and processes of different types of biofuel production Outlines a selection of different types of renewable feedstocks for biofuel production Summarizes adequate and balanced coverage of thermochemical and biochemical methods of biomass conversion into biofuel Includes regulations policies and lifecycle and techno economic assessments

Comprehensive Chemometrics Steven Brown, Roma Tauler, Beata Walczak, 2020-05-26 Comprehensive Chemometrics Second Edition Four Volume Set features expanded and updated coverage along with new content that covers advances in the field since the previous edition published in 2009 Subject of note include updates in the fields of multidimensional and megavariate data analysis omics data analysis big chemical and biochemical data analysis data fusion and sparse methods The book follows a similar structure to the previous edition using the same section titles to frame articles Many chapters from the previous edition are updated but there are also many new chapters on the latest developments Presents integrated reviews of each chemical and biological method examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge covering developments in the field since the first edition published in 2009 Meticulously organized with articles split into 4 sections and 12 sub sections on key topics to allow students researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience Presents integrated reviews of each chemical and biological method examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge covering developments in the field since the first edition published in 2009 Meticulously organized with articles split into 4 sections and 12 sub sections on key topics to allow students researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience

Amplifying Informal Science Learning Judy Diamond, Sherman Rosenfeld, 2023-06-30 This collection explores the broad landscape of current and future out of school science learning environments Written by leading experts and innovators in informal science learning these thoughtful and critical essays examine the changing nature of informal institutions such as science museums zoos nature centers planetariums aquaria and

botanical gardens and their impact on science education The book examines the learning opportunities and challenges created by community based experiences including citizen science makerspaces science media escape rooms hobby groups and gaming Based on current practices case studies and research the book focuses on four cross cutting themes inclusivity digital engagement community partnerships and bridging formal and informal learning to examine how people learn science informally The book will be of interest to STEM science technology engineering and math educators both in and out of school designers of science and experiential education programs and those interested in building STEM learning ecosystems in their communities Current Awareness in Particle Technology ,1986 **Literacy Assessment and Intervention for**

Classroom Teachers Beverly A. DeVries,2023-04-25 The Sixth Edition of this comprehensive resource helps future and practicing teachers recognize and assess literacy problems while providing practical effective intervention strategies to help every student succeed DeVries thoroughly explores all major components of literacy offering an overview of pertinent research suggested methods and tools for diagnosis and assessment intervention strategies and activities and technology applications to increase students skills Substantively updated to reflect the needs of teachers in increasingly diverse classrooms the Sixth Edition addresses scaffolding for English language learners and the importance of using technology and online resources It presents appropriate instructional strategies and tailored teaching ideas to help both teachers and their students The valuable appendices feature assessment tools instructions and visuals for creating and implementing the book s more than 150 instructional strategies and activities plus other resources New to the Sixth Edition Up to date and in line with national state and district literacy standards this edition covers the latest shifts in teaching and the evolution of these standards New material on equity and inclusive literacy instruction understanding the science of reading using technology effectively and reading and writing informational and narrative texts New intervention strategies and activities are featured in all chapters and highlight a stronger technology component Revamped companion website with additional tools videos resources and examples of teachers using assessment strategies Health Promotion Throughout the Life Span - E-Book

Carole Lium Edelman,Elizabeth Connelly Kudzma,2017-07-25 Promote health and wellness for all ages and population groups Health Promotion Throughout the Life Span 9th Edition provides a comprehensive guide to leading health promotion concepts from assessment to interventions to application Its lifespan approach addresses patients unique needs with case studies and care plans with an assessment framework based on Gordon s Functional Health Patterns New to this edition is expanded coverage of genomics and QSEN competencies Written by nursing experts Carole Edelman and Elizabeth Kudzma this bestselling text covers all the latest research and trends in health promotion and disease prevention Separate chapters on population groups the individual family and community highlight the unique aspects of assessment and health promotion for each group Coverage of growth and development helps you apply health promotion concepts to each age and each stage of development through the lifespan Case studies present realistic situations with questions asking you to apply key concepts

and care plans include nursing diagnoses defining characteristics related factors expected outcomes and interventions Quality and Safety Scenario boxes focus on QSEN related competencies with examples of health promotion Innovative Practice boxes outline unique and creative health promotion programs and projects currently being implemented Healthy People 2020 boxes present goals and objectives relating to national health issues and priorities Research for Evidence Based Practice boxes summarize current health promotion studies showing the links between research theory and practice Diversity Awareness boxes address cultural perspectives relating to planning care Hot Topics boxes introduce significant issues trends and controversies in health promotion Think About It clinical scenarios open each chapter and include questions to encourage critical thinking NEW An increased focus on genomics reflects scientific evidence supporting the use of genetic tests and family health history to guide public health interventions NEW Expanded discussion of QSEN competencies is included as related to health promotion NEW Guidelines and recommendations are included from the latest Guide to Clinical Preventive Services from the U S Preventive Services Task Force NEW The latest information about the Affordable Care Act is included NEW Updated photos reflect the latest in health promotion and disease prevention

Food Hydrocolloids as Encapsulating Agents in Delivery Systems Adil Gani,F.A. Masoodi,Umar Shah,Shah Asima,2019-06-07 This book addresses the use of food hydrocolloids as agents for encapsulating biological active ingredients It details the challenges of poorly controlled rate of hydration thickness decrease in viscosity upon storage and susceptibility to microbial contamination Food Hydrocolloids as Encapsulating Agents in Delivery Systems briefly describes various emerging biomaterials including food gums starches beta glucans and proteins for their potential role as wall material in the development of nutraceutical delivery systems Further it describes different techniques of fabrication of nanodelivery systems Features Provides an introduction to food hydrocolloids as encapsulating agents Covers starches and their derivatives as delivery systems Includes gum based delivery systems Discusses the classification isolation and purification of protein delivery systems This book would be helpful to food scientists and pharmaceutical scientists working in areas including nanotechnology polymer chemistry and nutraceutical delivery as well as regulators and government researchers in US FDA USDA and UK FSA regulatory agencies

Computational Radiomics for Cancer Characterization Omar Sultan Al-Kadi,Xujiong Ye,Giorgio Russo,Joseph Ross Mitchell,2022-10-21

Pediatric Neuro-oncology Katrin Scheinemann,Eric Bouffet,2024-10-22 While the first edition of this book provided a succinct introduction to pediatric neuro oncology biological knowledge of childhood CNS tumors has exploded over the past few years and a new edition of this textbook is needed to keep it up to date This updated edition will include chapters on cancer predisposition in children with brain tumors gliomas embryonal brain tumors ependymoma CNS GCT targeted therapies in pediatric brain tumors and long term sequelae New developments covered include the following Techniques like DNA methylation have improved the diagnostic process and have led to an integrated diagnosis of histology ICH and methylation Tumor pathways have been detected which defines

more subgroups within a tumor entity and results in more individualized treatment for the patient Therapeutic options outside the standard combination of surgery chemotherapy and radiation have either been implemented within the last years or are currently under consideration This book will be aimed at pediatric oncologists and neurooncologists neurosurgeons radiation oncologists Chapters detailing quality of life and supportive care will make this 2nd edition a useful resource for nurses social workers physiotherapists and occupational therapists alike The Basic Science of Oncology, Sixth Edition Lea Harrington, Robert E. Bristow, Ian F. Tannock, Richard Hill, 2021-01-08 Complete coverage of the basis of cancer and molecular biology from globally recognized experts The Basic Science of Oncology is an accessible and thorough introduction to cancer causation cancer biology and the biology underlying cancer treatment You ll find everything you need to know about the latest critical thinking in oncology as well ready to apply information about state of the art science and therapeutic applications Written by leading oncology researchers and clinicians this is an essential resource for health professionals students advanced undergraduates and graduates in biological sciences and clinicians needing an understanding of cancer cells Presented in full color The Basic Science of Oncology reflects the latest research and developments in the field Features NEW chapters Epigenetics and Principles of Genome Regulation and Targeted Cancer Diagnosis and Treatment Thoroughly revised content with expanded coverage of key topics such as immune system and immunotherapy tumor growth and metabolism vaccine development methods of molecular analysis tumor environment and more The most current evidence based oncology primer one that encapsulates the science of cancer causation cancer biology and cancer therapy Key insights into molecular and genetic aspects of cancer familiarize you with cancer biology as applied to prognosis and personalized cancer medicine In depth focus on the discovery evaluation and biology of anti cancer drugs immunotherapy and molecularly targeted agents Up to date coverage of the basic science of radiation therapy **Working Mother** ,2000-10 The magazine that helps career moms balance their personal and professional lives **Children's Books in Print, 2007** ,2006

Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Hofstra Property Law Journal** ,1993

Thor's Legions John Fuller,2015-03-30 This book provides insight into the air force weather history from 1937 to 1987 Author John F Fuller recounts the history of the Air Weather Service from World War II to the Vietnam conflict introducing its courageous family of forecasters who provided vital weather support for the nation s armed forces and made notable contributions to the field of meteorology It approaches controversial events leading up to the D Day Hiroshima and Nagasaki forecasts I d rate the book agem as a reference book especially for weather historians H Michael Mogil NWA June 6 1944

Government Reports Announcements & Index ,1988-11 **New Jersey Ceramist** ,1935 The total ceramic spectrum
Government Reports Annual Index ,1989 *Ceramic Age* ,1935 **Corrosion in the Petrochemical Industry,**
Second Edition ,2015-12-01 Originally published in 1994 this second edition of Corrosion in the Petrochemical Industry
collects peer reviewed articles written by experts in the field of corrosion that were specifically chosen for this book because
of their relevance to the petrochemical industry This edition expands coverage of the different forms of corrosion including
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