

JSS 3 BASIC TECHNOLOGY NOTES

MACHINES

Definitions:

A machine is an equipment, which man uses to make his work faster, easier, more accurate and at low cost.

The world we live in today has come to the point where man can no longer live without machines. In a better sense, we can safely say that mankind and machines have become married to each that they can hardly be separated. This is the reason why we have to study to know more about it.

Types of machines:

Although at this level of learning, you are expected to learn about two main types of machines namely simple and complex machines, there are actually three known types of machines. These are briefly stated and explained below:

1. **Simple Machine:** This is a machine type that does not require any engine, electrical and or electronic system for it to work. It is purely mechanical, requiring only human hands, legs or other body parts to work. E.g. Scissors, knife, pen, wheelbarrow, pliers, hammer, crowbar, mallet, hoe, cutlass, bicycle, etc.
2. **Compound Machine:** This type of machine requires an engine, mechanical system, and or some electrical systems to work. Some examples of compound machines are: fan, washing machine, motorcycle, electric pressing iron, mixer, toaster, barbing machine, roller coaster, elevator, etc.
3. **Complex machine:** This is a type of machine which has mechanical systems, electrical, electronic and an engine system in it. Examples of this type of machine included: train, aircraft, vehicle, ship, computers, phones, radio set, scanner, X-ray machine, telescope, etc.

Mechanical Advantage (M.A):

This is a technical term that is used to know the amount of value a machine can give to man. Numbers are used to know how beneficial a machine is to man. This benefit or value is actually based on the amount of energy, power or effort that man has to put into a machine for it to work for man. The smaller the number, the greater the effort; and the bigger the number, the smaller the effort man applies. Mechanical Advantage is calculated by using the mathematical formula below:

$$\text{Mechanical Advantage (M.A)} = \frac{\text{Load}}{\text{Effort}}, - - - - - (1)$$

Example problem: Two machines are expected to lift a load of 350N. If the force machine A applied to lift it is 75N and machine B used a force of 105N to do the same, (a) calculate the mechanical advantages for each of the machines? (b) Which of the machines is more efficient?

Summary

Jss 3 Basic Technology First Question Paper

Elvis D. Aryeh



Jss 3 Basic Technology First Question Paper:

Technology Education and the Realisation of Vision 2010 Nigerian Association of Teachers of Technology. Conference,1998 **Daily Graphic** Yaw Boadu-Ayeboafah,2005-12-10 **Daily Graphic** Elvis Aryeh,1993-04 **The Mirror** Margaret Safo (Mrs.),2005-08-06 **Daily Graphic** Elvis D. Aryeh,2002-07 **Data-Driven Decision Making for Product Service Systems** Giuditta Pezzotta,Roberto Sala,Xavier Boucher,Marco Bertoni,Fabiana Pirola,2024-06-21 This book is a compilation of theoretical and practical contributions aimed at facilitating the servitization of manufacturing companies specifically focusing on data driven decision making within the context of Product Service Systems PSS Providing a comprehensive overview it discusses the latest breakthroughs in operational tactical and strategic decision making for PSS leveraging data driven processes methodologies and tools Therefore the book significantly contributes to strengthening the knowledge on the use of data driven decision making methods and tools all the phases of the PSS lifecycle From extended warranties and leasing to pay per use and other innovative configurations manufacturing companies are increasingly adopting servitized business models and PSS to create additional value for their customers and users and create robust relationships with them ensuring more reliable cash flows In this setting effective information management and the utilization of aggregated operational data have become essential for guiding strategic tactical and operational decisions This book not only consolidates theoretical frameworks but also offers practical insights into data driven decision making in PSS providing deep knowledge on how complex decisions can be taken along the various phases of the PSS lifecycle using data driven methods and tools Key areas of focus include 1 In the Beginning of Life introducing new services tailored to customer needs disclosing new business opportunities in terms of revenues and extending the PSS Middle of Life 2 Designing or re designing assets and or services thereby influencing the PSS Beginning of Life 3 Enhancing daily decisions related to asset management to improve the PSS Middle of Life 4 Optimizing daily decisions related to service delivery and management aimed at enhancing the PSS Middle of Life 5 Facilitating informed decisions on recycling remanufacturing refurbishing and revamping impacting the PSS End of Life This book will be of interest to researchers and managers in industry as it offers insights that bridge the gap between theory and practical application in the evolving landscape of PSS *Advances and Applications in Model-Driven Engineering* Díaz, Vicente García,Lovelle, Juan Manuel Cueva,García-Bustelo, B. Cristina Pelayo,Martinez, Oscar Sanjuán,2013-08-31 As organizations and research institutions continue to emphasize model driven engineering MDE as a first class approach in the software development process of complex systems the utilization of software in multiple domains and professional networks is becoming increasingly vital *Advances and Applications in Model Driven Engineering* explores this relatively new approach in software development that can increase the level of abstraction of development of tasks This publication covers the issues of bridging the gaps between various disciplines within software engineering and computer science Professionals researchers and students will discover the most current tools and

techniques available in the field to maximize efficiency of model driven software development **Science and Technology Education for Sustainable Universal Basic Education in Nigeria** Chibuogwu V. Nnaka,Mars Chibueze Anaekwe,2003

Integration of Cloud Technologies in Digitally Networked Classrooms and Learning Communities Gurung, Binod,Limbu, Marohang,2016-11-22 The application of emerging technology in educational settings has proven to significantly enhance students experiences These tools provide better learning opportunities and engagement between students and instructors Integration of Cloud Technologies in Digitally Networked Classrooms and Learning Communities is a pivotal reference source for the latest scholarly research on the implementation of cloud pedagogies and innovations in classroom environments Highlighting concepts related to learning engagement curriculum design and theoretical perspectives this book is ideally designed for researchers practitioners professionals and students interested in the use of cloud technology in digital classrooms **Daily Graphic** Sam Clegg,1992-03-05 *The Mirror* E.N.O. Provencal,1991-03-28 Innovative Endoscopic and Surgical Technology in the GI Tract Santiago Horgan,Karl-Hermann Fuchs,2021-10-01 This book provides a comprehensive state of the art overview on the main trends in the newest endoscopic robotic and minimal invasive surgical innovations It also aims to give insight on some of the innovative ideas around Gastro intestinal Surgery and Endoscopy to stimulate further activities It contains established knowledge in the field of endoscopic and surgical techniques and the integration of these new findings in updated therapeutic decision making are demonstrated The text reviews the latest literature on the subjects and describes the decision making to establish new therapeutic options in the management of diseases applying new technologies These new techniques are described in detail which provide excellent back up information for clinicians in daily practice Written by experts in the field Innovative Endoscopic and Surgical Technology in the GI Tract is a valuable resource of knowledge for clinicians surgeons nurses technicians students and researchers with an interest in GI disease Social Computing in Digital Education Fernando Koch,Andrew Koster,Tiago Primo,2016-05-14 This book constitutes the refereed proceedings of the First International Workshop SOCIALEDU 2015 held in Stanford CA USA in August 2015 The workshop aimed to discuss computational models of social computing applied to Digital Education The 9 revised full papers presented were carefully reviewed and selected from 12 submissions The papers address issues such as novel data mining and machine learning for social intelligence in digital education Social modelling and simulation to investigate social behaviours emotional intelligence influence processes and other social aspects that may influence learning performance in an educational environment Smart environments and interactive systems of social computing in digital education Analysis of social media and media intelligence in digital education Mobile social gaming in digital education The utilization of mobile and wearable technology in social systems in digital education and others Innovative Intelligent Industrial Production and Logistics Alexander Smirnov,Hervé Panetto,Kurosh Madani,2023-07-06 This volume includes extended and revised versions of a set of selected papers from the First International Conference on Innovative Intelligent

Industrial Production and Logistics IN4PL 2020 held as virtual event in November 4 6 2020 and Second International Conference on Innovative Intelligent Industrial Production and Logistics IN4PL 2021 held as virtual event in October 25 27 2021 The 9 full papers included in this book were carefully reviewed and selected from 44 submissions They were organized in topical sections as follows on kernel search based gaussian process anomaly detection general architecture framework and general modelling framework Consolidating the Gains of Technology Education for National Development in Nigeria Nigerian Association of Teachers of Technology. Conference,2006 *Engineering* ,1922 **Tradition, Modernity and Post-modernity in Comparative Education** Vandra Masemann,Anthony Welch,1998-01-31 This special double issue consists of a selection of papers presented at the Ninth World Congress of Comparative Education held at the University of Sydney Australia in July 1996 on the theme of Tradition Modernity and Post modernity in Comparative Education Before presenting the selection this introduction will first survey the changing discourse in comparative education over the past few decades and will argue that an unreformulated and uncritical postmodernity holds no greater promise in comparative education than its uncritical modernist or tradition oriented rivals When Nicholas Hans 1949 cited Michael Sadler s early rationale for studying comparative education it was within the context of a work which sought to identify the traditions that underlay national educational systems This early work together with others such as that by Isaac Kandel 1930 was predicated on the assumption of the importance of national character of which education systems were an important component Indeed from this perspective the purpose of comparative education was not merely to analyse the forces and factors which produced differences among educational systems but implicitly at least also to discover the underlying principles which govern the development of all national systems of education Hans 1949 5 Hans was preeminently an historian of course as was Kandel to an extent and therefore saw comparative education first and foremost in this light

Engineering; an Illustrated Weekly Journal ,1922 *Past, Present and Future of Computing Education Research* Mikko Apiola,Sonsoles López-Pernas,Mohammed Saqr,2023-04-17 This book presents a collection of meta studies reviews and scientometric analyses that together reveal a fresh picture about the past present and future of computing education research CER as a field of science The book begins with three chapters that discuss and summarise meta research about the foundations of CER its disciplinary identity and use of research methodologies and theories Based on this the book proceeds with several scientometric analyses which explore authors and their collaboration networks dissemination practices international collaboration and shifts in research focus over the years Analyses of dissemination are deepened in two chapters that focus on some of the most influential publication venues of CER The book also contains a series of country or region level analyses including chapters that focus on the evolution of CER in the Baltic Region Finland Australasia Israel and in the UK Ireland Two chapters present case studies of influential CER initiatives in Sweden and Namibia This book also includes chapters that focus on CER conducted at school level and cover crucially important issues such as technology ethics

algorithmic bias and their implications for CER In all this book contributes to building an understanding of the past present and future of CER This book also contributes new practical guidelines highlights topical areas of research shows who to connect with where to publish and gives ideas of innovative research niches The book takes a unique methodological approach by presenting a combination of meta studies scientometric analyses of publication metadata and large scale studies about the evolution of CER in different geographical regions This book is intended for educational practitioners researchers students and anyone interested in CER This book was written in collaboration with some of the leading experts of the field

Materials Transactions, JIM. ,1996

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if it were a personal one on one painting lesson

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web apr 6 2023 full name robert norman ross born october 29 1942 died july 4 1995 birthplace daytona beach florida

spouses vivian ridge 1965 1977 jane lee zanardelli 1977 1992 lynda brown 1995

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