

Question 1

With a diagram explain the internal architecture of CPU? (3)

[KTU 19 June 23] [KTU 15 Apr 18] [KER 08 Dec 14]

Answer:

The Central Processing Unit (CPU) is the brain of any computer system. This unit is responsible for all the computations and processing activities inside the computer. The processed data may be sent to the output unit or stored in the memory for future use.

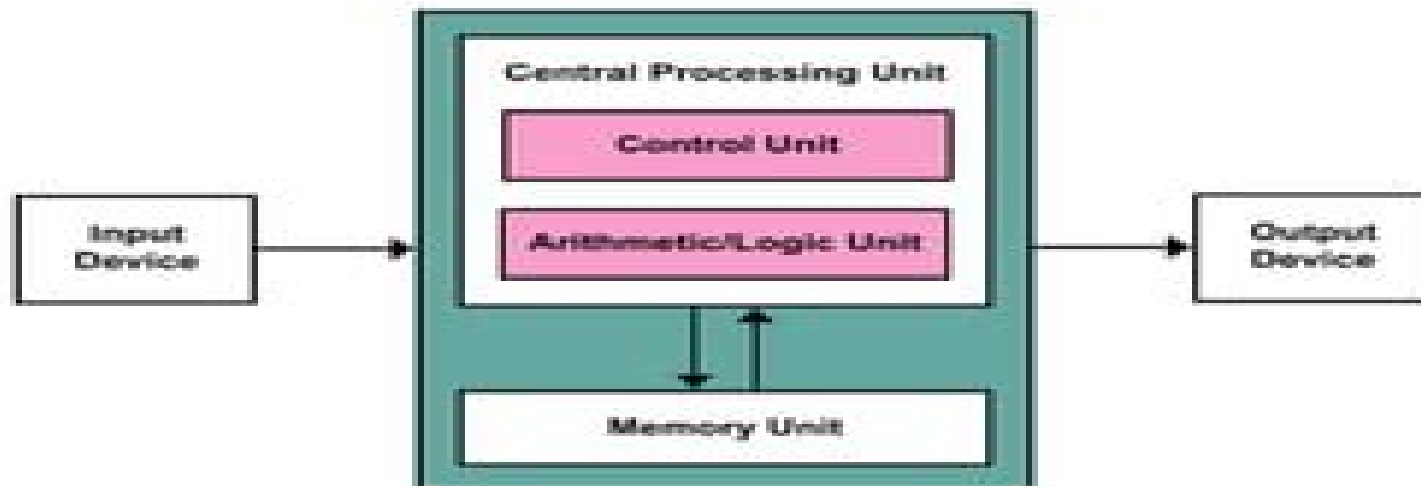


Fig. Basic functional units of a computer

Structure Of Computers And Computations

W. W. Youden



Structure Of Computers And Computations:

The Structure of Computers and Computations David J. Kuck,1978 The structure of computers D J Kuck v 1 The Structure of Computers and Computations David J. Kuck,1980-03-01 Computer Systems Organization general *Computer Literature Bibliography* United States. National Bureau of Standards,1965 **Computer Literature Bibliography: 1946-1963** W. W. Youden,1965 *Conceptual Structures: Logical, Linguistic, and Computational Issues* Bernhard Ganter,2000-07-31 This book constitutes the refereed proceedings of the 8th International Conference on Conceptual Structures ICCS 2000 held in Darmstadt Germany in August 2000 The 38 revised full papers presented have been carefully reviewed and selected for inclusion in the proceedings The book is divided in topical sections on concepts and language conceptual onthology conceptual graphs formal semantics of conceptual structures contextual logic and formal concept analysis conceptual structures in practice and computational aspects of conceptual structures **Computational Design of Lightweight Structures** Benoit Descamps,2014-03-10 The author of this book presents a general robust and easy to use method that can handle many design parameters efficiently Following an introduction Chapter 1 presents the general concepts of truss layout optimization starting from topology optimization where structural component sizes and system connectivity are simultaneously optimized To fully realize the potential of truss layout optimization for the design of lightweight structures the consideration of geometrical variables is then introduced Chapter 2 addresses truss geometry and topology optimization by combining mathematical programming and structural mechanics the structural properties of the optimal solution are used for devising the novel formulation To avoid singularities arising in optimal configurations this approach disaggregates the equilibrium equations and fully integrates their basic elements within the optimization formulation The resulting tool incorporates elastic and plastic design stress and displacement constraints as well as self weight and multiple loading The inherent slenderness of lightweight structures requires the study of stability issues As a remedy Chapter 3 proposes a conceptually simple but efficient method to include local and nodal stability constraints in the formulation Several numerical examples illustrate the impact of stability considerations on the optimal design Finally the investigation on realistic design problems in Chapter 4 confirms the practical applicability of the proposed method It is shown how we can generate a range of optimal designs by varying design settings **Computational Mechanics for Heritage Structures** B. Leftheris,2006 Reflecting the authors extensive experience and describing the results of projects they have worked on this book deals with applications of advanced computational mechanics techniques in structural analysis strength rehabilitation and aseismic design of monuments historical buildings and related structures The results are given with clear explanations so that civil and structural engineers architects and archaeologists and students of these disciplines can understand how to evaluate the structural worthiness of heritage buildings without the use of difficult mathematics Data Structures, Computer Graphics, and Pattern Recognition A. Klinger,K. S. Fu,T. L. Kunii,2014-05-10 Data Structures

Computer Graphics and Pattern Recognition focuses on the computer graphics and pattern recognition applications of data structures methodology This book presents design related principles and research aspects of the computer graphics system design data management and pattern recognition tasks The topics include the data structure design concise structuring of geometric data for computer aided design and data structures for pattern recognition algorithms The survey of data structures for computer graphics systems application of relational data structures in computer graphics and observations on linguistics for scene analysis are also elaborated This text likewise covers the design of satellite graphics systems interactive image segmentation surface representation for computer aided design and error correcting parsing for syntactic pattern recognition This publication is valuable to practitioners in data structures particularly those who are applying real computer systems to problems involving image speech and medical data Structural Dynamic Systems Computational Techniques and Optimization Cornelius T. Leondes, 1999-02-22 Formulation of an optimal dynamic structural system design problem requires identification of design variables that describe the structural system a cost function that needs to be minimized and performance and safety constraints for the system The formulation of the problem depends upon the type of application and objectives to be achieved i e the shape the sizing or topology design problem Specific design variable definition cost of function and constraints are dictated by the application This volume is a comprehensive treatment of the general methods involved in this broadly fundamental problem and provides essential techniques in specific but pervasive structural dynamic systems elements and their optimization *NBS Special Publication* ,1965

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