

FACTS ABOUT CARDIOVASCULAR SYSTEM

WHAT IS IT ?

The heart and circulatory system (also called the cardiovascular system) make up the network that delivers blood to the body's tissues.

With each heartbeat, blood is sent throughout our bodies, carrying oxygen and nutrients to all of our cells.

The circulatory system is composed of the heart and blood vessels, including arteries, veins, and capillaries.

Our bodies actually have two circulatory systems:

The pulmonary circulation is a short loop from the heart to the lungs and back again, and the systemic circulation (the system we usually think of as our circulatory system) sends blood from the heart to all the other parts of our bodies and back again.

Veins (blue)

A vein is an elastic blood vessel that transports blood from various regions of the body to the heart.

Superior vena cava

The superior vena cava (also known as the cava or cva) is a large diameter, yet short, vein that carries deoxygenated blood from the upper half of the body to the heart's right atrium.

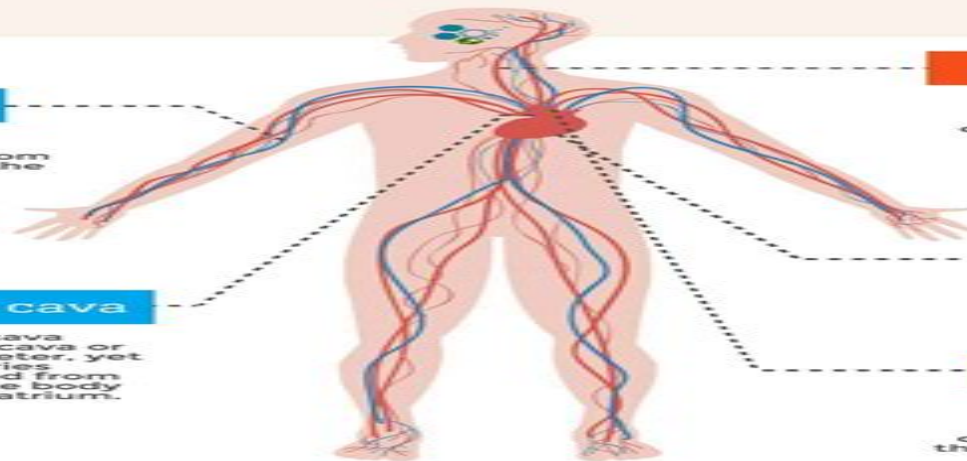
Arteries (red)

The arteries deliver the oxygen-rich blood to the capillaries where the actual exchange of oxygen and carbon dioxide occurs.

Heart

Aorta

It serves to supply them all with oxygenated blood. The aorta is the central conduit from the heart to the body.



THE HEART

The heart is one of the most important organs in the entire human body. It is really nothing more than a pump, composed of muscle which pumps blood throughout the body, beating approximately 72 times per minute of our lives.

The heart pumps the blood, which carries all the vital materials which help our bodies function and removes the waste products that we do not need.

For example, the brain requires oxygen and glucose, which, if not received continuously, will cause it to lose consciousness.

Aorta

Anterior Vena Cava

Semilunar Valve

Right Atrium

Right Ventricle

Posterior Vena Cava



Pulmonary Artery

Pulmonary Vein

Left Atrium

Atrioventricular Valve

Septum

Left Ventricle

Sources:

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<http://www.healthline.com/human-body-maps/heart>

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The Human Cardiovascular System Facts And Concepts

Michal Rosen-Zvi



The Human Cardiovascular System Facts And Concepts:

The Human Cardiovascular System John Thompson Shepherd, Paul M. Vanhoutte, 1979 The human cardiovascular system John Thompson Shepherd, Paul M. Vanhoutte, 1980 **Mathematical Modelling of the Human Cardiovascular System** Alfio Quarteroni, Luca Dede', Andrea Manzoni, Christian Vergara, 2019-05-09 Mathematical and numerical modelling of the human cardiovascular system has attracted remarkable research interest due to its intrinsic mathematical difficulty and the increasing impact of cardiovascular diseases worldwide This book addresses the two principal components of the cardiovascular system arterial circulation and heart function It systematically describes all aspects of the problem stating the basic physical principles analysing the associated mathematical models that comprise PDE and ODE systems reviewing sound and efficient numerical methods for their approximation and simulating both benchmark problems and clinically inspired problems Mathematical modelling itself imposes tremendous challenges due to the amazing complexity of the cardiovascular system and the need for computational methods that are stable reliable and efficient The final part is devoted to control and inverse problems including parameter estimation uncertainty quantification and the development of reduced order models that are important when solving problems with high complexity which would otherwise be out of reach *Data Mining: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2012-11-30 Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end users into an understandable way Data Mining Concepts Methodologies Tools and Applications is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world **Knowledge-Based Intelligent Information and Engineering Systems** Rajiv Khosla, 2005-08-25 Dear delegates friends and members of the growing KES professional community welcome to the proceedings of the 9th International Conference on Knowledge Based and Intelligent Information and Engineering Systems hosted by La Trobe University in Melbourne Australia The KES conference series has been established for almost a decade and it continues each year to attract participants from all geographical areas of the world including Europe the Americas Australasia and the Pacific Rim The KES conferences cover a wide range of intelligent systems topics The broad focus of the conference series is the theory and applications of intelligent systems From a pure research field intelligent systems have advanced to the point where their abilities have been incorporated into many business and engineering application areas KES 2005 provided a valuable mechanism for delegates to obtain an extensive view of the latest research into a range of intelligent systems algorithms tools and techniques The conference also gave delegates the chance to come into contact with those applying intelligent systems in diverse commercial areas The combination of theory and practice represented a unique opportunity to gain an appreciation of the full spectrum of leading edge intelligent systems activity The papers for KES 2005 were either submitted to invited sessions chaired and organized by respected experts in

their elds or to a general session managed by an extensive International Program Committee or to the Intelligent Information Hiding and Multimedia Signal Processing IIHMSP Workshop managed by an International Workshop Technical Committee

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Clinical cardiac physiology for residents and practitioners Halftone and color illustrations and tables **Federation Proceedings** ,1985 Animal Test Alternatives Harry Salem,1995 Over 75 contributors from industry academia and government evaluate the latest developments and possible directions in alternatives to using animals in research and testing and explain the regulatory climate that surrounds the controversial topic Among the alternatives described are computer and chemical models cell and tissue cultures and the substitution of animals lower on the phylogenetic genetic tree that are neither cute nor fuzzy The research considered involves such systems as the ocular hepatic renal respiratory cardiovascular and environmental Annotation c by Book News Inc Portland Or The Meaning of History Frederic Harrison,1894

Roster of Organizations in the Field of Automatic Computer Machinery ,1964 Assisted Circulation Felix Unger,1989
Assisted Circulation 3 is an authoritative review of the progress which has been achieved in the last 5 years since the appearance of Assisted Circulation 2 in 1984 The present book highlights the work of well known experts on new indications for assisted circulation cardiac assist devices as bridges toward transplantation temporary mechanical heart support results of long term studies into problems of tissue overgrowth infection and physiological regulation of cardiac devices and new results on cardiac transplantation and the new immunosuppressive regima Assisted Circulation 3 is the latest product of an ongoing effort by the editors to keep readers abreast of recent advances in the field on a regular basis **The Pauline theory of the inspiration of holy Scripture** William Erskine Atwell,1878 **Anesthesia and Coronary Artery Surgery** Sait Tarhan,1986 Mathematical Theories of Biological Phenomena Nicolas Rashevsky,1962 *Human Anatomy* Frederic Martini,Michael J. Timmons,Robert B. Tallitsch,2006 Features a large atlas style format appropriately detailed anatomical illustrations exceptionally clear photographs of tissues and cadavers and time saving study tools to give readers a complete understanding of anatomical structures Embalming: History, Theory, and Practice, Sixth Edition Sharon Gee-Mascarello,2022-02-05 The most complete and up to date text on the art and science of embalming This new edition of the trusted classic delivers the most current information on the art and science of embalming restorative art and mortuary cosmetology The authors give special attention to creating a safe working environment from the standpoint of ergonomics personal hygiene and the use of embalming chemicals Expanded technical areas of the book help you prepare the body for viewing without using standard embalming chemicals Embalming History Theory and Practice features thorough coverage of

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https://auld.rmjm.com/public/book-search/HomePages/Raise_The_Red_Lantern_Three_Novellas.pdf

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