

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, with 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 IVC) 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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The Human Cardiovascular System Facts And Concepts

Michal Rosen-Zvi

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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 friendsand membersofthe growingKES professionalcommunity w come to the proceedings of the 9th International Conference on Knowledge Based and

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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

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1975 Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute National Heart, Lung, and Blood Institute,1975

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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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Table of Contents The Human Cardiovascular System Facts And Concepts

1. Understanding the eBook The Human Cardiovascular System Facts And Concepts
 - The Rise of Digital Reading The Human Cardiovascular System Facts And Concepts
 - Advantages of eBooks Over Traditional Books
2. Identifying The Human Cardiovascular System Facts And Concepts
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Human Cardiovascular System Facts And Concepts
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Human Cardiovascular System Facts And Concepts
 - Personalized Recommendations
 - The Human Cardiovascular System Facts And Concepts User Reviews and Ratings
 - The Human Cardiovascular System Facts And Concepts and Bestseller Lists
5. Accessing The Human Cardiovascular System Facts And Concepts Free and Paid eBooks
 - The Human Cardiovascular System Facts And Concepts Public Domain eBooks
 - The Human Cardiovascular System Facts And Concepts eBook Subscription Services
 - The Human Cardiovascular System Facts And Concepts Budget-Friendly Options
6. Navigating The Human Cardiovascular System Facts And Concepts eBook Formats
 - ePub, PDF, MOBI, and More
 - The Human Cardiovascular System Facts And Concepts Compatibility with Devices
 - The Human Cardiovascular System Facts And Concepts Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Human Cardiovascular System Facts And Concepts
 - Highlighting and Note-Taking The Human Cardiovascular System Facts And Concepts
 - Interactive Elements The Human Cardiovascular System Facts And Concepts
8. Staying Engaged with The Human Cardiovascular System Facts And Concepts

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers The Human Cardiovascular System Facts And Concepts

9. Balancing eBooks and Physical Books The Human Cardiovascular System Facts And Concepts

- Benefits of a Digital Library
- Creating a Diverse Reading Collection The Human Cardiovascular System Facts And Concepts

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine The Human Cardiovascular System Facts And Concepts

- Setting Reading Goals The Human Cardiovascular System Facts And Concepts
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of The Human Cardiovascular System Facts And Concepts

- Fact-Checking eBook Content of The Human Cardiovascular System Facts And Concepts
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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