Name	Period	Date

THE HUMAN BODY SYSTEMS

System	Function	Diagram	Major Organs	Interactions- Working with Other Systems
Digestive	1. take in food (ingestion) 2. digest food into smaller molecules and absorb nutrients 3. remove undigestable food from body (feces)		Mouth, esophagus, stomach, Sm. Intestine, Lg. intestine, rectum, anus Salivary glands, pancreas, liver, gall bladder	w/circulatory - absorb & deliver the digested nutrients to the cells w/muscular - control the contractions of many of the digestive organs to pass food along w/nervous - hypothalamus maintains homeostasis by triggering appetite (stomach growling), digest.
Circulatory	Transport materials to and from cells	M	Heart Veins Arteries Capillaries Red blood cells	1. w/respiratory - deliver O2 from lungs to cells and drop off CO2 from cells to lungs 2. w/digestive - absorb and deliver digested nutrients to cells 3. w/excretory - kidneys filter cellular waste out of blood for removal 4. w/lymphatic - both transport things to and from cells 5. w/immune - transports WBCs throughout body to fight disease 6. w/nervous - brain controls heartbeat 7. w/endocrine - trans hormones
Nervous	1. gathers and interprets information 2. responds to information 3. helps maintain homeostasis	1	Brain Spinal cord Nerves Nerve cells = neurons hypothalamus	Controls all other systems Hypothalamus - maintains homeostasis by working with all systems

Interactions Among Systems Study Guide

Roberta Cuel, Diego Ponte, Francesco Virili

Interactions Among Systems Study Guide:

System of Systems Modeling and Analysis Daniel A. DeLaurentis, Kushal Moolchandani, Cesare Guariniello, 2022-12-05 System of Systems Modeling and Analysis provides the reader with motivation theory methodology and examples of modeling and analysis for system of system SoS problems In addition to theory this book contains history and conceptual definitions as well as the theoretical fundamentals of SoS modeling and analysis It then describes methods for SoS modeling and analysis including use of existing methodology and original work specifically oriented to SoS Providing a bridge between theory and practice for modeling and analysis of SoS this book includes generalized concepts and Methods Tools and Processes MTP applicable to SoS across any application domain Examples of application from various fields will be used to provide a practical demonstration of the use of the methodologies Features Offers a modern presentation of SoS principles and guided description of applying a modeling and analysis process to SoS engineering Provides additional modeling approaches useful for SoS engineering including agent based modeling Covers the current gap in literature between theory and modeling application Features examples of applications from various fields such as energy grids and regional transportation Includes questions examples and exercises at the end of each chapter This book is intended for senior undergraduate students in engineering programs studying SoS modeling SoS analysis and SoS engineering courses Professional engineers will also benefit from MTP and examples as a baseline for specific user applications Study Guide to Cell Biology Cybellium ,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com

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Thiel, Jürgen Kurths, M. Carmen Romano, György Károlyi, Alessandro Moura, 2010-05-17 This book is a collection of papers contributed by some of the greatest names in the areas of chaos and nonlinear dynamics Each paper examines a research topic at the frontier of the area of dynamical systems As well as reviewing recent results each paper also discusses the future perspectives of each topic The result is an invaluable snapshot of the state of the eld by some of the most important researchers in the area The rst contribution in this book the section entitled How did you get into Chaos is actually not a paper but a collection of personal accounts by a number of participants of the conference held in Aberdeen in September 2007 to honour Celso Grebogi's 60th birthday At the instigation of James Yorke many of the most well known scientists in the area agreed to share their tales on how they got involved in chaos during a celebratory dinner in Celso's honour during the conference This was recorded in video we felt that these accounts were a valuable historic document for the eld So we decided to transcribe it and include it here as the rst section of the book Exploring Digital Resilience Roberta Cuel, Diego Ponte, Francesco Virili, 2022-07-23 This book explores multidimensional issues concerning digital resilience and analyzes how people and organizations maintain enhance and protect value stemming from digital technologies Society is now heading for a future in which organizations and people will increasingly depend on digital technologies yet to date many are still unaware of the scale and risks associated with the digital transformation As a result there is an urgent need for digital resilience to drive a fundamental shift in the way people and organizations understand digital technologies risks and opportunities The book gathers a selection of the best papers presented at the annual conference of the Italian chapter of AIS which took place in Trento Italy in October 2021 The diverse range of views put forward by the authors makes it particularly relevant for scholars and practitioners interested in organization and for all of us living in the digital transformation era

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