

Mendelian Disorder

1. Autosomal Dominant	2. Autosomal Recessive	3. X-linked Recessive
- Both sex involved	- Both sex involved	- Males only
- Generations not skipped	- Generations skipped	-

Single Gene Disorder

Enzyme Defects	Structure protein defects
1. Accumulation of substrate	1. Marfan Syndrome
2. Lack of product	2. Ehler-Danlos Syndromes
3. Failure to inactivate a protein which cause damage	
	Receptor protein defect
	- Familial hypercholesterolemia (AD)

Mendelian Disorder

Autosomal Dominant	Autosomal Recessive	X-link recessive
- Both sex involved	- Both sex involved	- Males only
- Generations not skipped	- Generation skipped	- Generation skipping doesn't matter

Chromosomal Disorder

- Chromosome, genome mutation

Down Syndrome

- Meiotic nondisjunction of chromosome 21

Klinefelter Syndrome

- ≥ 2 X chromosome/ $1 \geq$ Y chromosome

- 47, XXY

- Testicular abnormality

Turner syndrome

- Complete/ partial monosomy of X chromosome in females
- Neck webbing, heart defects



By damn
cheatography.com/damn/

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N Colangelo



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Artificial Neural Nets and Genetic Algorithms Vera Kurkova, Nigel C. Steele, Roman Neruda, Miroslav Karny, 2013-11-11 The first ICANNGA conference devoted to biologically inspired computational paradigms Neural Net works and Genetic Algorithms was held in Innsbruck Austria in 1993 The meeting attracted researchers from all over Europe and further afield who decided that this particular blend of topics should form a theme for a series of biennial conferences The second meeting held in Ales France in 1995 carried on the tradition set in Innsbruck of a relaxed and stimulating environment for the exchange of ideas The series has continued in Norwich UK in 1997 and Portoroz Slovenia in 1999 The Institute of Computer Science Czech Academy of Sciences is pleased to host the fifth conference in Prague We have chosen the Liechtenstein palace under the Prague Castle as the conference site to enhance the traditionally good atmosphere of the meeting There is an inspirational genius loci of the historical center of the city where four hundred years ago a fruitful combination of theoretical and empirical method through the collaboration of Johannes Kepler and Tycho de Brahe led to the discovery of the laws of planetary orbits

Safety and Reliability of Complex Engineered Systems Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas

Targets for Teachers Judy K. Werder Sargent, Ann E. Smejkal, 2000 *Wilderness Benchmark 1988*, 1989 Nez Perce National Forest (N.F.), Mill Creek Planning Unit, 1976 Microbial Comparative Genomics and Pangenomics: New Tools, Approaches And Insights Into Gene and Genome Evolution

Paulo Jorge Dias, Satyanarayana Tulasi, Digvijay Verma, 2024-11-11 Comparative Genomics is the field of knowledge dedicated to the analysis and comparison of genes and genomes The scientific areas comprised in this field include subjects as diverse as just naming a few 1 the development of algorithms for the alignment of genes whole genomes short and long sequencing reads 2 the search for remote sequence similarity 3 the discovery of motifs and sequence patterns 4 the identification of gene families 5 the detection of ortholog paralog groups 6 the reconstruction of evolutionary history of the genes 7 the detection of signs of selective forces exerted over genes and genomes 8 the reconstruction of ancestral DNA and genome sequences 9 the detection and analysis of genome synteny 10 the inference of ancestral gene order among others In addition an important new sub field of Comparative Genomics has emerged in the last decade referred to as Pangenomics making available improved tools to analyze the exponential genomic data accumulating since the development of Second and Third Generation Sequencing Technologies

Resources in Education, 1993-02

Computer Architecture John L. Hennessy, David A. Patterson, Krste Asanović, 2012 The computing world is in the middle

of a revolution mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation This book focuses on the shift exploring the ways in which software and technology in the cloud are accessed by cell phones tablets laptops and more **ENC Focus** ,2000 **Anthony's Textbook of Anatomy & Physiology - E-Book** Kevin T. Patton,Gary A. Thibodeau,2018-03-05 Just because A P is complicated doesn't mean learning it has to be Anthony's Textbook of Anatomy Physiology 21st Edition uses reader friendly writing visually engaging content and a wide range of teaching and learning support to ensure classroom success Focusing on the unifying themes of structure and function and homeostasis author Kevin Patton uses a very conversational and easy to follow narrative to guide you through difficult A P material The new edition of this two semester text has been updated to ensure you have a better understanding of how the entire body works together In addition you can connect with the textbook through a number of free electronic resources including an electronic coloring book 3D animations and more Conversational writing style at a 11 7 reading level the lowest available for 2 semester A P books makes text engaging and easy to understand Updated Genetics chapter includes important advancements in that field Updated content on osmosis revised to make it more simple and accurate More than 1 400 full color photographs and drawings illustrate the most current scientific knowledge and bring difficult concepts to life Includes a unique color key to show color scheme that is used consistently throughout the book for example bones are off white enzymes are lime green nucleus is purple UNIQUE Consistent unifying themes such as the Big Picture and Cycle of Life sections in each chapter help you comprehend the interrelation of body systems and how the structure and function of these change in relation to age and development Numerous feature boxes including Language of Science and Language of Medicine Mechanisms of Disease Health Matters Diagnostic Study FYI Sport and Fitness and Career Choices provide interesting and important sidebars to the main content Quick Check Questions reinforce learning by prompting you to review what you've just read Chapter outlines chapter objectives and study tips begin each chapter NEW Integrative Unit Closers ties together content with integrative critical thinking questions NEW Additional and updated Connect It boxes renamed from A P Connect provide relevant bonus information for you to explore NEW All new animations in the text and on Evolve companion site help you understand the reasoning and knowledge behind each answer and assist with recalling correct answers

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