

Solutions Pre Intermediate 2nd Edition Progress Test

Mathematical economics

Dictionary of Economics, 2nd Edition, v. 6, pp. 138–57. Abstract. Archived 2017-08-11 at the Wayback Machine Robbins, Lionel (1935, 2nd ed.). An Essay on the

Mathematical economics is the application of mathematical methods to represent theories and analyze problems in economics. Often, these applied methods are beyond simple geometry, and may include differential and integral calculus, difference and differential equations, matrix algebra, mathematical programming, or other computational methods. Proponents of this approach claim that it allows the formulation of theoretical relationships with rigor, generality, and simplicity.

Mathematics allows economists to form meaningful, testable propositions about wide-ranging and complex subjects which could less easily be expressed informally. Further, the language of mathematics allows economists to make specific, positive claims about controversial or contentious subjects that would be impossible...

Methylene blue

dysplasia, or pre-cancerous lesions. Intravenously injected methylene blue is readily released into the urine and thus can be used to test the urinary tract

Methylthioninium chloride, commonly called methylene blue, is a salt used as a dye and as a medication. As a medication, it is mainly used to treat methemoglobinemia. It has previously been used for treating cyanide poisoning and urinary tract infections, but this use is no longer recommended.

Methylene blue is typically given by injection into a vein. Common side effects include headache, nausea, and vomiting.

Methylene blue was first prepared in 1876, by Heinrich Caro. It is on the World Health Organization's List of Essential Medicines.

Textual criticism

Septuaginta - Rahlfs' 2nd edition Gottingen Septuagint (*Vetus Testamentum Graecum: Auctoritate Academiae Scientiarum Gottingensis editum*): in progress *Biblia Hebraica*

Textual criticism is a branch of textual scholarship, philology, and literary criticism that is concerned with the identification of textual variants, or different versions, of either manuscripts (mss) or of printed books. Such texts may range in dates from the earliest writing in cuneiform, impressed on clay, for example, to multiple unpublished versions of a 21st-century author's work. Historically, scribes who were paid to copy documents may have been literate, but many were simply copyists, mimicking the shapes of letters without necessarily understanding what they meant. This means that unintentional alterations were common when copying manuscripts by hand. Intentional alterations may have been made as well, for example, the censoring of printed work for political, religious or cultural...

Second law of thermodynamics

Providence RI. Zemansky, M.W. (1968). Heat and Thermodynamics. An Intermediate Textbook, fifth edition, McGraw-Hill Book Company, New York. Goldstein, Martin, and

The second law of thermodynamics is a physical law based on universal empirical observation concerning heat and energy interconversions. A simple statement of the law is that heat always flows spontaneously from hotter to colder regions of matter (or 'downhill' in terms of the temperature gradient). Another statement is: "Not all heat can be converted into work in a cyclic process."

The second law of thermodynamics establishes the concept of entropy as a physical property of a thermodynamic system. It predicts whether processes are forbidden despite obeying the requirement of conservation of energy as expressed in the first law of thermodynamics and provides necessary criteria for spontaneous processes. For example, the first law allows the process of a cup falling off a table and breaking...

On the Origin of Species

parts served different functions to meet new conditions, and he found an intermediate stage in the evolution of distinct sexes. Darwin's barnacle studies convinced

On the Origin of Species (or, more completely, On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life) is a work of scientific literature by Charles Darwin that is considered to be the foundation of evolutionary biology. It was published on 24 November 1859. Darwin's book introduced the scientific theory that populations evolve over the course of generations through a process of natural selection, although Lamarckism was also included as a mechanism of lesser importance. The book presented a body of evidence that the diversity of life arose by common descent through a branching pattern of evolution. Darwin included evidence that he had collected on the Beagle expedition in the 1830s and his subsequent findings from research, correspondence...

Formaldehyde

polymerises spontaneously into paraformaldehyde. It is stored as aqueous solutions (formalin), which consists mainly of the hydrate CH2(OH)2. It is the simplest

Formaldehyde (for-MAL-di-hide, US also fər-) (systematic name methanal) is an organic compound with the chemical formula CH₂O and structure H₂C=O. The compound is a pungent, colourless gas that polymerises spontaneously into paraformaldehyde. It is stored as aqueous solutions (formalin), which consists mainly of the hydrate CH₂(OH)₂. It is the simplest of the aldehydes (R–CHO). As a precursor to many other materials and chemical compounds, in 2006 the global production of formaldehyde was estimated at 12 million tons per year. It is mainly used in the production of industrial resins, e.g., for particle board and coatings.

Formaldehyde also occurs naturally. It is derived from the degradation of serine, dimethylglycine, and lipids. Demethylases act by converting N-methyl groups to formaldehyde...

Education in India

enroll in pre-university colleges to pursue their intermediate education, which acts as a bridge between high school and university. The pre-university

Education in India is primarily managed by the state-run public education system, which falls under the command of the government at three levels: central, state and local. Under various articles of the Indian Constitution and the Right of Children to Free and Compulsory Education Act, 2009, free and compulsory education is provided as a fundamental right to children aged 6 to 14. The approximate ratio of the total number of public schools to private schools in India is 10:3.

Education in India covers different levels and types of learning, such as early childhood education, primary education, secondary education, higher education, and vocational education. It varies significantly according to different factors, such as location (urban or rural), gender, caste, religion, language, and disability...

Three-age system

technology and the relevant modern people with the Tasmanians. In the 2nd edition of 1915 he has changed his mind for reasons that are not clear. The Mousterian

The three-age system is the periodization of human prehistory (with some overlap into the historical periods in a few regions) into three time-periods: the Stone Age, the Bronze Age, and the Iron Age, although the concept may also refer to other tripartite divisions of historic time periods. In some periodizations, a fourth Copper Age is added as between the Stone Age and Bronze Age. The Copper, Bronze, and Iron Ages are also known collectively as the Metal Ages.

In history, archaeology and physical anthropology, the three-age system is a methodological concept adopted during the 19th century according to which artefacts and events of late prehistory and early history could be broadly ordered into a recognizable chronology. C. J. Thomsen initially developed this categorization in the period...

Star

planetary nebula and leave behind their core in the form of a white dwarf. Intermediate-mass stars, between ~2.25 M☉ and ~8 M☉, pass through evolutionary stages

A star is a luminous spheroid of plasma held together by self-gravity. The nearest star to Earth is the Sun. Many other stars are visible to the naked eye at night; their immense distances from Earth make them appear as fixed points of light. The most prominent stars have been categorised into constellations and asterisms, and many of the brightest stars have proper names. Astronomers have assembled star catalogues that identify the known stars and provide standardized stellar designations. The observable universe contains an estimated 1022 to 1024 stars. Only about 4,000 of these stars are visible to the naked eye—all within the Milky Way galaxy.

A star's life begins with the gravitational collapse of a gaseous nebula of material largely comprising hydrogen, helium, and traces of heavier elements...

Surgery

Surgery 2030: evidence and solutions for achieving health, welfare, and economic development“, describing the large, pre-existing burden of surgical

Surgery is a medical specialty that uses manual and instrumental techniques to diagnose or treat pathological conditions (e.g., trauma, disease, injury, malignancy), to alter bodily functions (e.g., malabsorption created by bariatric surgery such as gastric bypass), to reconstruct or alter aesthetics and appearance (cosmetic surgery), or to remove unwanted tissues, neoplasms, or foreign bodies.

The act of performing surgery may be called a surgical procedure or surgical operation, or simply "surgery" or "operation". In this context, the verb "operate" means to perform surgery. The adjective surgical means pertaining to surgery; e.g. surgical instruments, surgical facility or surgical nurse. Most surgical procedures are performed by a pair of operators: a surgeon who is the main operator performing...

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