GRE学科词汇集合

英文单词	中文意思
Science	
absolute zero	绝对零度：在某个温度下，粒子的动能变成零。
acceleration	加速度, 加快进程
amorphous solid	非晶体：没有规则的晶体结构，但有确定的体积和形状的物质。
antielectron	［电子］反电子；正电子
axioms	n. [数] 公理；公设；原理（axiom的复数）

bandwidth	带宽（某个频道所能传送的信息的最大值）
broadband	宽频；宽波段
charged vacuum	带电的真空
conduction	传导；导电
constant-frequency	固定频道
control group	控制组（实验对照组）

convection	（物理学）对流（气象学）气团的垂直移动
crest	波峰
dispersion	离散
displacement	位移
empty space	真空（相当于**vacuum**）
energy equation	［数］能量方程式
finite mass	有限的质量
fleeting existence	转瞬即逝
flow-reversal	倒流
frequency-modulated	调频（可以在不同频道转化）
gluons	n. [物] 胶子（一种理论上假设的

linear	线性的
magnetic dipole	磁偶极子
nuclei	原子核（复数形式：nuleus）
qualitative	定性
quanta	量子，该单词的单数形式是 quantum
quantum field theories	［量子］量子场论
quantum ladder	量子阶梯
quantum theory	量子论
quarks	夸克（理论上一种比原子更小的基本粒子）
refraction	折射
rotary compressor	［机］回转式压缩机
Schrodinger equation	[物]薛定谔方程
spectrum	范围
thermal energy	热能

time interval	时间间隔
trajectory	轨迹
variable	变量
velocity	速度
virtual particles	虚粒子（与粒子很多特性相同，但存在时间非常短暂）

GRE/GMAT 阅读原文

According to the Arrhenius equation, chemical reactions are increasingly unlikely to occur as temperatures approach absolute zero (absolute zero: n.绝对零度(约为-273.15度)), and at absolute zero (zero degrees Kelvin, or minus 273 degrees Celsius) reactions stop.

Some economists have suggested that giving away free shares would provide a needed acceleration of the privatization process.

The intensive work of materials scientists and solid-state physicists has given rise to a class of solids known as amorphous metallic alloys, or glassy metals.

For example, an electron and a positron, or antielectron, can be created out of the void.

The mathematicians turn the scientists' theoretical assumptions, that is, their convenient points of analytical emphasis, into axioms, and then take these axioms literally.

Because of their narrow bandwidth, CF signals portray only the target's presence and, in the case of some bat species, its motion relative to the bat's.

The broadband FM signals and the narrowband CF signals travel out to a target, reflect from it, and return to the hunting bat.

As a result of the decay of the vacuum, the space permeated by such a field can be said to acquire an electric charge, and it can be called a charged vacuum.

Such variations in size, shape, chemistry, conduction speed, excitation threshold, and the like as had been demonstrated in nerve cells remained negligible.

Echo locating bats emit sounds in patterns — characteristic of each species — that contain both frequency-modulated (FM) and constant-frequency (CF) signals.

Subjects who read the researchers' brochure performed significantly better in understanding radon risks than did a control group who read a brochure that was written using a different approach by a government agency.

On the other hand, the theory is implausible because convection does not normally occur along lines

Efforts to explain how the pterosaurs became airborne have led to suggestions that they launched themselves by jumping from cliffs, by dropping from trees, or even by rising into light winds from the crests of waves.

or one may inquire about the molecular basis for the increased cell mobility involved in cell dispersion.

Thus, the average number unemployed during a year understates the actual volume of involuntary displacement that occurs.

Even in empty space, particles can appear spontaneously as a result of fluctuations of the vacuum.

the additional input of thermal energy into the circulating refrigerant via the evaporator accounts for the difference in the energy equation.

There are conditions under which the introduction of a real particle of finite mass into an empty region of space can reduce the total energy.

Particles created in this way have only a fleeting existence; they are annihilated almost as soon as they appear, and their presence can never

This flow-reversal capability allows heat pumps either to heat or cool room air.

Echo locating bats emit sounds in patterns — characteristic of each species — that contain both frequency-modulated (FM) and constant-frequency (CF) signals.

The gluons are the quanta, or smallest units, of the force (the strong force) that keeps the quarks together.

Some movements involving primarily vertical or horizontal motions of the body as a whole, in which rotations can be ignored, can be studied using simple equations of linear motion in three dimensions.

it may come as a shock to mathematicians to learn that the Schrodinger equation for the hydrogen atom is not a literally correct description of this atom, but only an approximation to a somewhat more correct equation taking account of spin, magnetic dipole, and relativistic effects

An electric field of sufficient intensity to create a charged vacuum is likely to be found in only one place: in the immediate vicinity of a superheavy atomic nucleus, one with about twice as many protons as the heaviest natural nuclei known.

Since the substances are unevenly distributed in the egg, when the fertilized egg divides, the resulting cells are different from the start and so can be qualitatively different in their own gene activity.

The gluons are the quanta, or smallest units, of the force (the strong force) that keeps the quarks together.

In the quantum field theories that describe the physics of elementary particles, the vacuum becomes somewhat more complicated.

We can distinguish three different realms of matter, three levels on the quantum ladder.

The quantum theory, however, suggests otherwise, for every observation involves the passage of a complete quantum from the object to the subject, and it now appears that this passage constitutes an important coupling between observer and observed.

The gluons are the quanta, or smallest units, of the force (the strong force) that keeps the quarks together.

These images are constructed by mechanically aligning pictorial representations of such phenomena as the reflection of light waves outside the visible spectrum, the refraction of radio waves, and the daily changes in temperature in areas on the Earth's surface.

The volume flow rate of refrigerant vapor through the single-speed rotary compressor used in heat pumps is approximately constant.

it may come as a shock to mathematicians to learn that the Schrodinger equation for the hydrogen atom is not a literally correct description of this atom, but only an approximation to a somewhat more correct equation taking account of spin, magnetic dipole, and relativistic effects

The FM signals report information about target characteristics that modify the timing and the fine frequency structure, or spectrum, of echoes—for example, the target's size, shape, texture, surface structure, and direction in space.

the additional input of thermal energy into the circulating refrigerant via the evaporator accounts for the difference in the energy equation.

There is no reason why the Earth should always pass through the stream's exact center, so the time interval between the two bursts of activity would vary from one year to the next.

If these hypothetical "hidden parameters" were known, a fully deterministic trajectory could be defined.

the sunspot cycle and the allied magnetic-polarity cycle have been linked to periodicities discerned in records of such variables as rainfall, temperature, and winds.

If the ices had been rapidly vaporized by an impacting object, the expanding gases might have helped the ejected fragments reach escape velocity.

They are called virtual particles in order to distinguish them from real particles, whose lifetimes are not constrained in the same way, and which can be detected.

Chemistry

alkali ['ælkə'lai] metal	碱金属
alumina	[无化] 氧化铝；矾土
aluminum	（金属元素）铝
arsenic	砷；砒霜；三氧化二砷
bauxite	n. 矾土，[矿物] 铁铝氧石；[矿物] 铝土矿
carbon monoxide	一氧化碳
cobalt	[化学] 钴；钴类颜料；由钴制的深蓝色
copper-ore	铜矿
corundum	n. 金刚砂，刚玉
fissures	裂缝；岩溶列横
flux	熔化
hydrated oxides	[无机化学] 氢氧化物

hydrogen sulfide	硫化氢
inert	惰性的，不活跃的
Isotopic composition	同位素组成
lead	铅
lithium	金属锂
mutability	易变性；不稳定性
nitrogen fixation	固氮作用
nucleic acid	[生化] 核酸
phosphate	磷酸盐
phosphate fertilizer	磷肥(料)
polymer	[高分子] 聚合物
Rhizobium	根瘤菌

rupture	撕裂，破裂
silicates	n. [矿物] 硅酸盐
superphosphate fertilizer	过磷酸钙肥料
synthesis	（化学）合成；合成品
trace elements	[化学] 微量元素

Hot spots are also distinguished from other volcanoes by their lavas, which contain greater amounts of alkali metals than do those from volcanoes at plate margins.

Bauxite is the richest of all those aluminous rocks that occur in large quantities, and it yields alumina, the intermediate product required for the production of aluminum.

Eight percent of the Earth's crust is aluminum, and there are hundreds of aluminum-bearing minerals and vast quantities of the rocks that contain them.

Elemental composition can vary within the same copper-ore lode, usually because of varying admixtures of other elements, especially iron, lead, zinc, and arsenic.

The best aluminum ore is bauxite, defined as aggregates of aluminous minerals, more or less impure, in which aluminum is present as hydrated oxides.

Recent microwave observations of carbon monoxide (CO) molecules indicate a similar rate of mass loss and demonstrate that the escaping material extends outward from the star for a distance of at least one light-year.

And high concentrations of cobalt or zinc, noticed in some artifacts, appear in a variety of copper-ore sources.

Elemental composition can vary within the same copper-ore lode, usually because of varying admixtures of other elements, especially iron, lead, zinc, and arsenic.

Alumina also occurs naturally as the mineral corundum, but corundum is not found in large deposits of high purity, and therefore it is an impractical source for making aluminum.

When a continental plate comes to rest over a hot spot, material welling up from deeper layers forms a broad dome that, as it grows, develops deep fissures.

Finally, flux, which is sometimes added during smelting to remove waste material from the ore, could add quantities of elements to the final product.

The best aluminum ore is bauxite, defined as aggregates of aluminous minerals, more or less impure, in which aluminum is present as hydrated oxides.

Later, evidence in support of the idea of intense local chemosynthesis was accumulated: hydrogen sulfide was found in vent water; many vent-site bacteria were found to be capable of chemosynthesis; and extremely large concentrations of bacteria were found in samples of vent water thought to be pure.

Some bacteria and fungi possess the unique and extremely important biochemical asset of being able to catalyze the oxidation of numerous inert products

Isotopic composition, the percentages of the different isotopes of an element in a given sample of the element, is therefore particularly suitable as an indicator of the sources of the ore.

An alternative choice is lead, which occurs in most copper and bronze artifacts of the Bronze Age in amounts consistent with the lead being derived from the copper ores and possibly from the fluxes.

Actually, its limits are set by the amount of available lithium, which is about as plentiful as uranium in the Earth's crust.

Thus, just as earlier theories have explained the mobility of the continental plates, so hot-spot activity may suggest a theory to explain their mutability.

Two relatively recent independent developments stand behind the current major research effort on nitrogen fixation, the process by which bacteria symbiotically render leguminous plants independent of nitrogen fertilizer.

Viruses, infectious particles consisting of nucleic acid packaged in a protein coat (the capsid), are difficult to resist.

Despite these difficulties, there has been important new work that suggests that this symbiotic association can be harnessed to achieve more economical use of costly superphosphate fertilizer and to permit better exploitation of cheaper, less soluble rock phosphate.

In legumes, mycorrhizal inoculation has increased nitrogen fixation beyond levels achieved by adding phosphate fertilizer

The physical properties of most tissues can be matched by careful selection of raw materials: metals, ceramics, or several varieties of polymer materials.

The leguminous plants — among them crop plants such as soybeans, peas, alfalfa, and clover—have solved the nitrogen supply problem by entering into a symbiotic relationship with the bacterial genus *Rhizobium*

In some instances, the continental plate may rupture entirely along some of the fissures so that the hot spot initiates the formation of a new ocean.

Most of the many abundant nonbauxite aluminous minerals are silicates, and, like all silicate minerals, they are refractory, resistant to analysis, and extremely difficult to process.

Despite these difficulties, there has been important new work that suggests that this symbiotic association can be harnessed to achieve more economical use of costly superphosphate fertilizer and to permit better exploitation of cheaper, less soluble rock phosphate.

For the smooth operation of this cycle, degradation is just as important as synthesis.

Moreover, the processing of ores introduced poorly controlled changes in the concentrations of minor and trace elements in the resulting metal.

astronomy

infrared emissions	[红外] 红外发射；红外线辐射
achondrites	不含球粒陨石
alpha particles	α粒子：能发射穿透性射线的放射性化合物，一种高速、大质量的正电粒子
celestial body	[天] 天体
chondrites	含球粒陨石
collision hypothesis	碰撞假说（月亮是因为和地球碰撞而产生的）
deuterium	n. [核] 氘；[核] 重氢
fission	裂变
fusion	聚变
giant star	巨星（与太阳相比有较低的密度；非常明亮，直径很大）

gravitational field	引力场
impact craters	[地质] 撞击坑
infrared radiation	红外辐射
inner solar system	内太阳系
intermediate stage	（行星）中期
ionize	电离化
molten rock	熔岩；熔融岩石
nebulas	星云
neutron	中子
permafrost ices	永久冻土

planetary nebula	[天] 行星状星云：a usually compact luminous ring-shaped nebula that is composed of matter which has been ejected from a hot star at its center
presolar nebula	[天] 前太阳星云
properties	特质，特性
proto planetary	原形星系
relative humidity	相对湿度
Shergottites	[地质] 辉熔长石无球粒陨石
spherules	小球；小球体
spiral galaxy	(=spiral nebula)螺旋星云,旋涡星云
supernova	超新星

[redacted]

Although these molecules allow radiation at visible wavelengths, where most of the energy of sunlight is concentrated, to pass through, they absorb some of the longer-wavelength, infrared emissions radiated from the Earth's surface, radiation that would otherwise be transmitted back into space.

These igneous meteorites are known as achondrites because they lack chondrules — small stony spherules found in the thousands of meteorites (called " chondrites ") composed primarily of unaltered minerals that condensed from dust and gas at the origin of the solar system.

in fact, the deuterium-tritium reaction that nuclear scientists are currently exploring with such zeal produces both alpha particles and neutrons.

Other theorists propose that the Moon was ripped out of the Earth's rocky mantle by the Earth's collision with another large celestial body after much of the Earth's iron fell to its core.

These igneous meteorites are known as achondrites because they lack chondrules — small stony spherules found in the thousands of meteorites (called " chondrites ") composed primarily of unaltered minerals that condensed from dust and gas at the origin of the solar system.

One problem with the collision hypothesis is the question of how a satellite formed in this way could have settled into the nearly circular orbit that the Moon has today.

Another common misconception is that nuclear fusion power is a virtually unlimited source of energy because of the enormous quantity of deuterium in the sea.

For the immediate future, we must continue to use hydroelectric power, nuclear fission, and fossil fuels to meet our energy needs.

It is a popular misconception that nuclear fusion power is free of radioactivity

Evidence supporting this view comes from observations of IRC+10216, a pulsating giant star located 700 light-years away from Earth.

In order to account for such an unlikely source, some unusual factor must be invoked, because the impact needed to accelerate a fragment of rock to escape the gravitational field of a body even as small as the Moon is so great that no meteorites of lunar origin have been discovered.

From the small number of impact craters that appear on Martian lava flows, one can estimate that the planet was volcanically active as recently as a half-billion years ago — and may be active

An increase in the amount of carbon dioxide means that there are more molecules of carbon dioxide to absorb infrared radiation.

Theorists are divided concerning the origin of the Moon. Some hypothesize that the Moon was formed in the same way as were the planets in the inner solar system (Mercury, Venus, Mars, and Earth) — from planet-forming materials in the presolar nebula.

Moreover, it is just these more massive stars whose collapse does not halt at intermediate stages (that is, as white dwarfs or neutron stars).

Once the star has lost the entire envelope, its exposed core becomes the central star of the planetary nebula and heats and ionizes the last vestiges of the envelope as it flows away into space.

Shergottites crystallized from molten rock less than 1.1 billion years ago

Theoretical models as well as statistics on supernovas and planetary nebulas suggest that stars that begin their lives with masses around 6 M shed sufficient material to drop below the critical value of 1.4 M. IRC+10216, for example, should do this in a mere 50,000 years from its birth, only an instant in the life of a star.

in fact, the deuterium-tritium reaction that nuclear scientists are currently exploring with such zeal produces both alpha particles and neutrons.

A recent study suggests, however, that permafrost ices below the surface of Mars may have altered the effects of impact on it.

Once the star has lost the entire envelope, its exposed core becomes the central star of the planetary nebula and heats and ionizes the last vestiges of the envelope as it flows away into space.

Theorists are divided concerning the origin of the Moon. Some hypothesize that the Moon was formed in the same way as were the planets in the inner solar system (Mercury, Venus, Mars, and Earth) — from planet-forming materials in the presolar nebula.

While most meteorites appear to derive from comparatively small bodies, shergottites exhibit properties that indicate that their source was a large planet, conceivably Mars.

But what place does IRC+10216 have in stellar evolution? Astronomers suggest that stars like IRC+10216 are actually " proto planetary nebulas"—old giant stars whose dense cores have almost but not quite rid themselves of the fluffy envelopes of gas around them.

This model assumes that the atmosphere's relative humidity remains constant and the temperature decreases with altitude at a rate of 6.5℃ per kilometer.

Shergottites, the name given to three anomalous achondrites so far discovered on Earth, present scientists with a genuine enigma.

These igneous meteorites are known as achondrites because they lack chondrules — small stony spherules found in the thousands of meteorites (called " chondrites ") composed primarily of unaltered minerals that condensed from dust and gas at the origin of the solar system.

If many such chains were created in a differentially rotating galaxy, the distribution of stars would resemble the observed distribution in a

If a supernova (the explosion of a massive star) triggered star formation from dense clouds of gas and dust, and if the most massive star to be formed from the cloud evolved into a supernova and triggered a new round of star formation, and so on, then a chain of star-forming regions would

biology

tadpolelike appendicularian	蝌蚪形状的尾海鞘纲动物（尾索动物亚门中最原始的类型，因成体终生具有幼体的尾和脊索而得名。）
adrenal glands	肾上腺
adrenaline	肾上腺素
advection	（热能）水平对流；（空气）水平运动
aerobic	需氧的
amino-acid	氨基酸
amnesia	失忆症
anaerobic	厌氧的

anaerobic glycolysis	无氧代谢（葡萄糖在无氧条件下分解生成乳酸并释放出能量的过程）
animal exclusion	不同动物族群之间相互排斥、驱赶的现象
antigens	[免疫] 抗原
antiserums	［免疫] 抗血清
Araneidae	金蛛科
archetypal situations	原型场景
auditory sensation	[生理] 听觉
bacterial strains	菌株
bilateral symmetry	[生物] 两侧对称；例如蝴蝶的两片翅膀一般就是完全对称的，人类的两只眼睛也是完全对称的。

blood-brain barrier	（人体组织）血脑屏障，保护脑部不受血液中外来物质的伤害
brain stem	脑干
capsid	衣壳（病毒的）
catalyze	刺激、催化
cerebral cortex	[解剖] 大脑皮层
chemosynthesis	［化学] 化学合成
cholesterol	［生化］胆固醇
chromosome	染色体
classical empiricism	经典经验主义
cline	[生物] 渐变群，生态群(一种生态特征)

common sequence	[生物]公共序列（序列就是某分子的排列顺序）
cutaneous	皮肤上的
dehydrate [di'haɪdret]	脱水
deleterious effects	毒害效应
embryo	受精卵
endocrine glands	[解剖] 内分泌腺
endocrine system	内分泌系统
endocrinologist	内分泌学家
ethologists	比较行动学家
fauna	动物
Flatfish	比目鱼

gamete	生殖细胞
genetic mutation	基因突变
glycogen	糖原；动物淀粉
grazer	食草动物
hallucination	幻觉，幻想
homeostatic	自我平衡的；原状稳定的
hydrothermal	[地质] 热液的；热水的
hypercholesterolemia	[医]血胆脂醇过高
hypothalamus	[解剖] 下丘脑
inert	惰性的，不活跃的
invertebrate ɪn'vɜ·tɪbret]	无脊椎动物

lactic acid	乳酸
larva	幼虫
legumes	豆类；豆科植物
life cycle	［生］生活周期
lipoproteins	[生化] 脂蛋白（与蛋白质结合在一起形成的脂质-蛋白质复合物）
lymphocytes	淋巴球
metabolic rate	代谢速率
molecular biology	［分子生物] 分子生物学
morphology	形态
mycorrhizal fungi	（真菌）菌根
net phytoplankton	网状浮游植物

nucleic acids	核酸
opacity	不透明
orb	球形
oversynthesis	过度合成
oxidative metabolism	有氧代谢
particulate matter	颗粒物质
pathogen	病原体：菌，原生动物，真菌，病毒，寄生虫等
pathogenic organisms	病原体
peptide	缩氨酸
peptide hormones	肽类激素（通过刺激肾上腺皮质生长、红细胞生成等实现促进人体的生长、发育，部分运动员滥用该激素提高竞赛成绩）
peripheral areas	周边地区
photosynthesis	光合作用

phytoplankton	浮游植物
population dynamics	种群动态;人口动态
predicament	问题
red herring	n. 熏青鱼, 与事实不相干的论点
resident flora	常居菌从
respiration	呼吸
rhesus macaques	短尾猴
rhinoviruses	[病毒] 鼻病毒（造成上呼吸道感染的病毒）
sebum	皮脂
seizures	癫痫
sensory nerve	感觉神经

starry flounder	(美洲)箭齿鲽,星斑川鲽
status quo	现状
symbiotic association	共生体
synchronized	同步的，同时代的
taxonomic	［生物］分类的；[生物] 分类学的
termites	白蚁类，白蚁目
tetracycline	四环素（一种抗生素）
threshold	极限；临界值
triglyceride	［化］甘油三酸酯
unsaturated fatty acids	非饱和脂肪酸
venom glands	毒腺
vent	深海热液的喷口处

vent communities （深海热液喷口处的）营养生物群落

zooplankton 浮游动物

[redacted]

A very specialized feeding adaptation in zooplankton is that of the tadpolelike appendicularian who lives in a walnut-sized (or smaller) balloon of mucus equipped with filters that capture and concentrate phytoplankton

The elements of intelligence and consciousness come together marvelously to produce different styles in predator and prey. Herbivores and carnivores develop different kinds of attention related to escaping or chasing. Although in both kinds of animal, arousal stimulates the production of adrenaline and norepinephrine by the adrenal glands

The elements of intelligence and consciousness come together marvelously to produce different styles in predator and prey. Herbivores and carnivores develop different kinds of attention related to escaping or chasing. Although in both kinds of animal, arousal stimulates the production of adrenaline and norepinephrine by the adrenal glands

The first reports describing vent faunas proposed two possible sources of nutrition: bacterial chemosynthesis, production of food by bacteria using energy derived from chemical changes, and advection, the drifting of food materials from surrounding regions

The release of the carbon in these compounds for recycling depends almost entirely on the action of both aerobic and anaerobic bacteria and certain types of fungi.

Second, puromycin was found to inhibit protein synthesis by breaking certain amino-acid chains, and the resulting fragments were suspected of being the actual cause of amnesia in some cases.

The first step toward establishing a connection between protein synthesis and learning seemed to be block memory (cause amnesia) by interrupting the production of protein.

The release of the carbon in these compounds for recycling depends almost entirely on the action of both aerobic and anaerobic bacteria and certain types of fungi.

Perhaps they could if it were not for anaerobic glycolysis, the great equalizer.

The converse observation, of the absence of grazers in areas of high phytoplankton concentration, led Hardy to propose his principle of animal exclusion, which hypothesized that phytoplankton produced a repellent that excluded grazers from regions of high phytoplankton concentration.

organ rejection is likely unless the transplantation antigens of both individuals are nearly identical

But these beliefs about peptide hormones were questioned as laboratory after laboratory found that antiserums to peptide hormones, when injected into the brain, bind in places other than the hypothalamus, indicating that either the hormones or substances that cross-react with the antiserums are present.

About half the 35,000 known kinds of spiders make webs; a third of the web weavers make orb webs. Since most orb weavers belong either to the Araneidae or the Uloboridae families, the origin of the orb web can be determined only by ascertaining whether the families are related.

The role those anthropologists ascribe to evolution is not of dictating the details of human behavior but one of imposing constraints — ways of feeling, thinking, and acting that " come naturally " in archetypal situations in any culture.

In one experiment, when an electric stimulus was applied to a given sensory field of the cerebral cortex of a conscious human subject, it produced a sensation of the appropriate modality for that particular locus, that is, a visual sensation from the visual cortex, an auditory sensation from the auditory cortex, and so on.
Medications added to feeds kill many microorganisms but also encourage the appearance of bacterial strains that are resistant to anti-infective

Flatfish, such as the flounder, are among the few vertebrates that lack approximate bilateral symmetry (symmetry in which structures to the left and right of the body's midline are mirror images).

What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream.

The processes of arousal and concentration give attention its direction. Arousal is at first general, with a flooding of impulses in the brain stem

The strains differ most in the molecular structure of the proteins in their capsids.

Some bacteria and fungi possess the unique and extremely important biochemical asset of being able to catalyze the oxidation of numerous inert products

In one experiment, when an electric stimulus was applied to a given sensory field of the cerebral cortex of a conscious human subject, it produced a sensation of the appropriate modality for that particular locus, that is, a visual sensation from the visual cortex, an auditory sensation from the auditory cortex, and so on.

The first reports describing vent faunas proposed two possible sources of nutrition: bacterial chemosynthesis, production of food by bacteria using energy derived from chemical changes, and advection, the drifting of food materials from surrounding regions.

For some time scientists have believed that cholesterol plays a major role in heart disease because people with familial hypercholesterolemia, a genetic defect, have six to eight times the normal level of cholesterol in their blood and they invariably develop heart disease.

Since Fisher's time, it has been realized that genes can sometimes influence the chromosome or gamete in which they find themselves so that the gamete will be more likely to participate in fertilization.

Historically, a cornerstone of classical empiricism has been the notion that every true generalization must be confirmable by specific observations.

Biologists call this kind of gradual variation over a certain geographic range a cline and interpret clines as strong indications that the variation is adaptive, a response to environmental differences.

Among these smaller, nonantibody molecules, some might bind to the common sequence, lock the nucleic acid in its coat, and thereby prevent the virus from reproducing.

Unsaturated fatty acids, an important component of the lipids in sebum collected from the skin surface, inhibit the growth of several bacterial and fungal cutaneous pathogens.

If a given protein persists in the body for months or years, some of its Amadori products slowly dehydrate and rearrange themselves yet again, into new glucose-derived structures.

little congressional attention has been focused on an

It is superfluous to point out that gene mutations and disturbances of the bio-synthetic processes in the embryo may result in abnormalities in the morphology (structure) of an organism.

Peptide hormones, scientists thought, were made by endocrine glands and the hypothalamus was thought to be the brains' only endocrine gland.

The herbivore prey is of a different mind. Its mood of wariness rather than searching and its attitude of general expectancy instead of anticipating are silk-thin veils of tranquility over an explosive endocrine system.

Roberts, expressing the sentiment of many researchers, states: " I was trained as an endocrinologist. But it became clear to me that the field of endocrinology needed molecular biology input.

Chimps and children, gulls and Greeks—the ethologists go their merry way, comparing bits of human cultural behavior with bits of genetically programmed animal behavior.

The deep sea typically has a sparse fauna dominated by tiny worms and crustaceans, with an even sparser distribution of larger animals.

Flatfish, such as the flounder, are among the few vertebrates that lack approximate bilateral symmetry (symmetry in which structures to the left and right of the body's midline are mirror images).

Since Fisher's time, it has been realized that genes can sometimes influence the chromosome or gamete in which they find themselves so that the gamete will be more likely to participate in fertilization.

How, scientists wondered, could a genetic mutation that causes a slowdown in the removal of LDL's from the blood also result in an increase in the synthesis of this cholesterol-carrying protein?

The amount of energy that can be produced anaerobically is a function of the amount of glycogen present—in all vertebrates about 0.5 percent of their muscles' wet weight.

Many theories have been formulated to explain the role of grazer such as zooplankton in controlling the amount of planktonic algae (phytoplankton) in lakes.

In that case, he argues, *any* statement or combination of statements (not merely the "offending" generalization, as in classical empiricism) can be altered to achieve the fundamental requirement, a system free of contradictions, even if, in some cases, the alteration consists of labeling the new observation a "hallucination."

In this homeostatic system, a great number of organic compounds are synthesized, transformed, and decomposed continuously.

Hence, the widely quoted conclusion was reached that bacterial chemosynthesis provides the foundation for hydrothermal-vent food chains

For some time scientists have believed that cholesterol plays a major role in heart disease because people with familial hypercholesterolemia, a genetic defect, have six to eight times the normal level of cholesterol in their blood and they invariably develop heart disease.

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding.

Some bacteria and fungi possess the unique and extremely important biochemical asset of being able to catalyze the oxidation of numerous inert products

It might seem that this interminably long recovery time in a large vertebrate would prove a grave disadvantage for survival.

Anaerobic glycolysis is a process in which energy is produced, without oxygen, through the breakdown of muscle glycogen into lactic acid and adenosine triphosphate (ATP), the energy provider.

Hamilton, noting that the eggs develop within their host—the larva of another insect—and that the newly emerged adult wasps mate immediately and disperse, offered a remarkably cogent analysis.

In legumes, mycorrhizal inoculation has increased nitrogen fixation beyond levels achieved by adding phosphate fertilizer alone.

In one kind of viral life cycle, the virus first binds to the cell's surface, then penetrates the cell and sheds its capsid.

These people lack cell-surface receptors for low-density lipoproteins (LDL's), which are the fundamental carriers of blood cholesterol to the body cells that use cholesterol.

the introduction of any unmatched transplantation antigens induces the development by the recipient of donor-specific lymphocytes that will produce violent rejection of further transplantations from that donor

The high metabolic rate of small animals, for example, gives them sustained power and activity per unit of weight,

New techniques of molecular biology, however, provide a way to answer these questions.

It is superfluous to point out that gene mutations and disturbances of the bio-synthetic processes in the embryo may result in abnormalities in the morphology (structure) of an organism.

Mycorrhizal fungi infect more plants than do any other fungi and are necessary for many plants to thrive, but they have escaped widespread investigation until recently for two reasons.

Perhaps the fact that many of these first studies considered only algae of a size that could be collected in a net (net phytoplankton), a practice that overlooked the smaller phytoplankton (nannoplankton) that we now know grazers are most likely to feed on, led to a de-emphasis of the role of grazers in subsequent research.

The conceptual framework for this research was derived directly from molecular biology, which had shown that genetic information is stored in nucleic acids and expressed in proteins.

But in most cases, the behavior of cells in the intact embryo is difficult to study because of the thickness and opacity of the cell masses.

One of the questions of interest in the study of the evolution of spiders is whether the weaving of orb webs evolved only once or

They are necessary to prevent oversynthesis of LDL's from VLDL remnants and they are necessary for the normal removal of LDL's from the blood.

It has long been known that the rate of oxidative metabolism (the process that uses oxygen to convert food into energy) in any animal has a profound effect on its living patterns.

Most deep-sea faunas rely for food on particulate matter, ultimately derived from photosynthesis, falling from above.

The problem can be cured by crop rotation, denying the pathogens a suitable host for a period of time.

Although pathogenic organisms constantly alight on the skin, they find it a very unfavorable environment and, in the absence of injury, have great difficulty

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding.

What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream.

It is conceivable, however, that these large, sedentary organisms do in fact feed on bacteria that grow in warm-water vents, rise in the vent water, and then rain in peripheral areas to nourish animals living some distance from the warm-water vents.

Most deep-sea faunas rely for food on particulate matter, ultimately derived from photosynthesis, falling from above.

Many theories have been formulated to explain the role of grazer such as zooplankton in controlling the amount of planktonic algae (phytoplankton) in lakes.

Grazing was believed to have some effect on algal numbers, especially after phytoplankton growth rates declined at the end of bloom periods, but grazing was considered a minor component of models that predicted algal population dynamics

One solution to this predicament is to try to find some phenomena relevant to morphogenesis which both the molecular biologist and the morphologist can understand and discuss.

As for the left-eyed and right-eyed flatfish, their difference, however striking, appears to be an evolutionary red herring

The most interesting defense mechanism, however, results from the metabolic activities of the resident

For the smooth operation of this cycle, degradation is just as important as synthesis: the green plants produce great quantities of polymers, such as cellulose, and innumerable other compounds like alkaloids, terpenes, and flavonoids, that green plants cannot use as sources of energy during respiration.

When the same parameters and quantitative theory are used to analyze both termite colonies and troops of rhesus macaques, we will have a unified science of sociobiology.

Unfortunately, the common cold, produced most often by rhinoviruses, is intractable to antiviral defense.

These acids are a metabolic product of certain gram-positive members of the cutaneous community, which break down the more complex lipids in freshly secreted sebum.

Third, puromycin was reported to cause abnormalities in the brain, including seizures.

According to this theory, it is not the quality of the sensory nerve impulses that determines the diverse conscious sensations they produce, but rather the different areas of the brain into which they discharge

While in most species with asymmetries virtually all adults share the same asymmetry, members of the starry flounder species can be either left-eyed (both eyes on the left side of head) or right-eyed.

This "self-sterilizing" capacity of the skin results from the tendency of all well-developed ecosystems toward homeostasis, or the maintenance of the status

First, the symbiotic association is so well-balanced that the roots of host plants show no damage even when densely infected.

The evolution of intelligence among early large mammals of the grasslands was due in great measure to the interaction between two ecologically synchronized groups of these animals

Recent taxonomic analysis of individuals from both families indicates that the families evolved from different ancestors, thereby contradicting Wiehle ' s

Consider for a moment termites and macaques.

Already, for example, penicillin and the tetracyclines are not as effective therapeutically as they once

Such variations in size, shape, chemistry, conduction speed, excitation threshold, and the like as had been demonstrated in nerve cells remained negligible in significance for any possible correlation with the manifold dimensions of mental experience.

Prior to the breakthrough at Kobe University, it was known that LDL's are secreted from the liver in the form of a precursor, called very low-density lipoproteins (VLDL's), which carry triglycerides as well as relatively small amounts of cholesterol.

Unsaturated fatty acids, an important component of the lipids in sebum collected from the skin surface, inhibit the growth of several bacterial and fungal cutaneous pathogens.

The families differ in appearance, structure of body hair, and arrangement of eyes. Only Uloborids lack venom glands.

Thus, for an average-sized vent, advection could provide more than 30 kilograms of potential food per day.

The food supplies necessary to sustain the large vent communities, however, must be many times the ordinary fallout.

Many theories have been formulated to explain the role of grazer such as zooplankton in controlling the amount of planktonic algae (phytoplankton) in lakes.

Geology

plumes	(地柱)
Bronze Age	铜器时代
calcareous fossils	钙化化石
celestial navigation	【航海学】天文导航,天文航海 [亦称作 astronavigation,celo-navigation]
closed loop	[电]闭环
cogenetic	同源捕虏体（在岩浆侵入作用过程中，由于侵入作用的强大力量，经常使围岩碎块落入岩浆中，称为捕虏体。）
condenser	n. 冷凝器
configuration	（生物、建筑等）结构，形状
cross section	横截面

crustal rock	地壳岩石
crystallography	[晶体] 结晶学
energy conservation	能源节约； 能量守恒［不灭］
epoch	世 （千万年）
extensive farming	粗放农作
garnet	[矿物] 石榴石
geohydrology	地质水文学
geothermal fluid	（地理）地热流体
geothermal gradient	地温梯度(geothermal gradient)是指每单位深入地下的温度变化幅度，地壳的地温梯度平均而言是30℃/km，也就是每增加一公里的深度，温度就升高摄氏三十度。

geyser ['gaɪzə]	周期性喷发热泉
glacial and interglacial periods	[地质] 冰期/间冰期（冰期是地质历史上出现大规模冰川的时期;间冰期是两次冰期之间气候变暖的时期。冰期时，冰川大规模扩张或前进;间冰期时，冰川消融后退。）
glaciation	[地质] 冰川作用；冻结成冰
heat pumps	[制冷] 热泵，蒸汽泵
herculean task	需要付出巨大气力的工作;极为艰巨的工作
Hydrogeology	水文地质学
hydrologic cycle	水循环
Ice Age	冰河世纪
ice cap	（地理）冰帽；冰冠（现多为南北极地区和高山上的永久冰川）
ice sheets	[水文] 冰盖；冰川
igneous rocks	[岩]火成岩

isotopic	同位素的
kimberlites	金伯利岩
lamproites	钾镁煌斑岩
latitude	纬度
lode	矿脉
magnetic field	磁场
meteorological	气象学的
midocean ridge system	大洋中脊系统
moraines	n. 冰碛石
olivine	[矿物] 橄榄石
optimum climate	最佳气候

oscillation	震荡，起伏，波动
outcropping	露出地面的岩层
permeability	可穿透性，（岩石）可渗水性
pillow lava	枕状熔岩
Pleistocene	更新世：该时期以大面积的冰川覆盖和人类的发展为显著标志。
pluvials	n. 雨季；洪积世
pyroxene	[矿物] 辉石
refrigerant	制冷液
Scandinavia	斯堪的纳维亚（北欧半岛）
stratospheric	平流层的

xenoliths	捕虏岩（指火成岩中与其无成因关系的包体）；[岩] 捕虏体

The best evidence for the layered mantle thesis is the well-established fact that volcanic rocks found on oceanic islands, islands believed to result from mantle plumes arising from the lower mantle, are composed of material fundamentally different from that of the midocean ridge system, whose source, most geologists contend, is the upper mantle.

The determination of the sources of copper ore used in the manufacture of copper and bronze artifacts of Bronze Age civilizations would add greatly to our knowledge of cultural contacts and trade in that era.

The primary method previously used by paleontologists to estimate climatic changes that occurred during Pleistocene glacial cycles was the determination of $^{18}O/^{16}O$ ratios in calcareous fossils

Perhaps, some scientists thought, migrants determine their geographic position on Earth by celestial navigation, almost as human navigators use stars and planets, but this would demand of the animals a fantastic map sense.

Heat pumps circulate a fluid refrigerant that cycles alternatively from its liquid phase to its vapor phase in a closed loop

the resemblance is regarded as compelling evidence that the diamonds and inclusions are truly cogenetic.

The refrigerant leaves the compressor as a hot, dense vapor and flows through a heat exchanger called the condenser, which transfers heat from the refrigerant to a body of air.

Two other Pacific island chains—the Austral Ridge and the Tuamotu Ridge—parallel the configuration of the Hawaiian chain; they are also aligned from the east toward the northwest, with the most recent volcanic activity near their eastern terminuses.

Virtually any cross section cut through a tangled mass of interconnected flow lobes would give the appearance of a pile of discrete ellipsoidal masses

If an average geothermal temperature gradient of 22℃ per kilometer of depth is used, a staggering 13,000,000 quadrillion B.T.U.'s of total energy are calculated to be contained in crustal rock to a ten-kilometer depth in the United States.

It is not known how rare this resemblance is, or whether it is most often seen in inclusions of silicates such as garnet, whose crystallography is generally somewhat similar to that of diamond

The use of heat pumps has been held back largely by skepticism about advertisers' claims that heat pumps can provide as many as two units of thermal energy for each unit of electrical energy used, thus apparently contradicting the principle of energy conservation

The epoch that geologists know as the Pleistocene and that spanned the 1.5 to 2.0 million years prior to the current geologic epoch was not one long continuous glaciation, but a period of oscillating climate with ice advances punctuated by times of interglacial climate not very different from the climate experienced now.

By about 1870 improvements in agricultural technology made possible the full exploitation of areas that were most suitable for extensive farming on a mechanized basis.

However, some diamonds contain minute inclusions of silicate minerals, commonly olivine, pyroxene, and garnet.

The term " geohydrology " is sometimes erroneously used as a synonym for "hydrogeology." Geohydrology is concerned with underground water.

Thus a potential hot dry rock (HDR) reservoir exists whenever the amount of spontaneously produced geothermal fluid has been judged inadequate for existing commercial systems.

The geothermal gradient, which specifically determines the depth of drilling required to reach a desired temperature, is a major factor in the recoverability of geothermal resources.

These systems have been developed in areas of recent volcanic activity, where high rates of heat flow cause visible eruption of water in the form of geysers and hot springs.

This succession was based primarily on a series of deposits and events not directly related to glacial and interglacial periods, rather than on the more usual modern method of studying biological remains found in interglacial beds themselves interstratified within glacial deposits.

The epoch that geologists know as the Pleistocene and that spanned the 1.5 to 2.0 million years prior to the current geologic epoch was not one long continuous glaciation, but a period of oscillating climate with ice advances punctuated by times of interglacial climate not very different from the climate experienced now.

The use of heat pumps has been held back largely by skepticism about advertisers' claims that heat pumps can provide as many as two units of thermal energy for each unit of electrical energy used, thus apparently contradicting the principle of energy conservation

Eradication of the Alpine nomenclature is still proving a Herculean task.

Hydrogeology is a science dealing with the properties, distribution, and circulation of water on the surface of the land, in the soil and underlying rocks, and in the atmosphere.

Only when a system possesses natural or artificial boundaries that associate the water within it with the hydrologic cycle may the entire system properly be termed hydrogeologic.

The term " Ice Age " may give a wrong

Ice sheets that derived from an ice cap centered on northern Scandinavia reached southward to Central Europe.

And Beyond the margins of the ice sheets, climatic oscillations affected most of the rest of

Diamonds, an occasional component of rare igneous rocks called lamproites and kimberlites, have never been dated satisfactorily.

For example, both temperature fluctuations and isotopic changes in seawater affect the 18O/16O ratio.

Diamonds, an occasional component of rare igneous rocks called lamproites and kimberlites, have never been dated satisfactorily.

Diamonds, an occasional component of rare igneous rocks called lamproites and kimberlites, have never been dated satisfactorily.

It turns out that the largest total ozone amounts are found at high latitudes.

Elemental composition can vary within the same copper-ore lode, usually because of varying admixtures of other elements, especially iron, lead, zinc, and arsenic.

Researchers now know that some species have a magnetic sense, which might allow migrants to determine their geographic location by detecting variations in the strength of the Earth's magnetic field.

But a supposed global temperature rise of 1℃ may in reality be only several regional temperature increases, restricted to areas where there are many meteorological stations and caused simply by shifts in the pattern of atmospheric circulation.

We believe, perhaps unimaginatively, that this debate can be resolved through further study, and that the underexplored midocean ridge system is the key.

Yet this succession was forced willy-nilly onto the glaciated parts of Northern Europe, where there are partial successions of true glacial ground moraines and interglacial deposits

However, some diamonds contain minute inclusions of silicate minerals, commonly olivine, pyroxene, and garnet.

The chill truth seems to be that we are already past the optimum climate of postglacial time.

Thus, if this process occurred, there might be a long-term oscillation in the amount of CO_2 present in the atmosphere, with regular temperature increases and decreases of a set magnitude.

Others describe pillow lava as a tangled mass of cylindrical, interconnected flow lobes. Much of this controversy probably results from unwarranted extrapolations of the original configuration of pillow flows from two-dimensional cross sections of eroded pillows in land outcroppings.

artificial stimulation will be required to create either sufficient permeability or bounded flow paths to facilitate the removal of heat by circulation of a fluid over the surface of the rock.

Volcanic rock that forms as fluid lava chills rapidly is called pillow lava.

The primary method previously used by paleontologists to estimate climatic changes that occurred during Pleistocene glacial cycles was the determination of 18O/16O ratios in calcareous fossils.

for example, in the deserts, periods of wetter conditions (pluvials) contrasted with drier, interpluvial periods.

However, some diamonds contain minute inclusions of silicate minerals, commonly olivine, pyroxene, and garnet.

The refrigerant, starting as a low-temperature, low-pressure vapor, enters a compressor driven by an electric motor.

Ice sheets that derived from an ice cap centered on northern Scandinavia reached southward to Central Europe.

The stratospheric ozone layer is not a completely uniform stratum, nor does it occur at the same altitude around the globe.

Some geologists, however, on the basis of observations concerning mantle xenoliths, argue that the mantle is not layered, but that heterogeneity is created by fluids rich in " incompatible elements " (elements tending toward liquid rather than solid state) percolating upward and transforming portions of the upper mantle irregularly, according to the vagaries of the fluids' pathways.

Sociology

juvenile courts	未成年人法庭
absolute polarity	绝对对立
acculturation	文化适应；文化移入；文化互渗（不同文化在频繁交流中的互相影响）
acquisition	理解
Anglo-Saxon	盎格鲁-撒克逊民族；部分族人较有种族优越感，认为自己血统高贵、精英阶级
anticommunist	反共主义
antipathy	反感
appeasement	绥靖政策
Arab paganism	阿拉伯宗教异端
armed forces	军队，武装力量
assimilation	文化上的同化、融合
benign process	良性过程
Bluestocking	女学者；(18世纪中期英国伦敦文学团体)“蓝袜社”

bourgeois	中产阶级的
canon law	教会法规
caste status	种姓地位
charter	特许
class relations	阶级关系
conceptual orientation	思维模式
consanguinity	血亲，亲属关系
convergence	（文化）交汇
cultural accommodation	文化适应
cultural integration	文化融合
delinquency problem	青少年犯罪
deposition	[律]（在法庭上的）宣誓作证，证词
determinism	宿命论（一切事件的发生都不可避免，都由之前发生过的事情决定。人们对于宿命无能为力）

deterrence	（一般指武力、暴力等）震慑力
division of labor	劳动力的分工
ecclesiastical hierarchy	（教会）阶级体系
egalitarian	（种族、性别之间的）平等主义
ephemeral	短暂的
extended family	大家庭,扩大的家庭(如数代同堂的家庭)
fascism	法西斯主义
feminist	女权主义的
Game theory	博弈论
Garrison government	卫戍政府
gentry	（英）上流社会人士
impinge on	影响
indigenous Indians	（美国）印第安原住民
inherited status	阶级身份的固化（父亲是奴隶身份，子孙也是奴隶身份）

Judaism	犹太教
kinship system	亲属系统
lifetime servitude	终身奴役
nationalist view	民族主义价值观
Old Testament	（圣经）旧约；
omnipresent	无处不在的
ordination	排列顺序；隶属关系；
orientation	方向，理念
plantation system	种植园制度
plutocratic	贵族式的

political alignments	政治联盟
proletariat	无产阶级的
propaganda	洗脑，宣传
psychoanalysis	精神分析；心理分析（由著名心理学家费洛伊德提出）
puritanical	清教徒的
reverie	幻想
sacred law	宗教法；神法
Saint-Simonians	圣西门主义，空想社会主义
skepticism	怀疑论
social class	社会阶级
social ladder	社会等级
social mobility	社会流动性（不同阶级之间流动的可能性，比如底层人民致富进入上流阶级就是阶级流动的表现）
social security	（美国）养老保险，社会保障
social standing	社会地位

socialism	社会主义
subjugation	（政治）镇压，克服
subservience	有益
synthesize	分析（相当于analyze）
taboo	社会禁忌
trailblazers	领路人
truancy	旷课；逃学
utopia	乌托邦；理想世界

Even as the number of females processed through juvenile courts climbs steadily, an implicit consensus remains among scholars in criminal justice that male adolescents define the delinquency problem in the United States.

They pose the clash of national cultures as an absolute polarity, with each culture understood as static and undifferentiated.

This policy of colonization through acculturation was continued when Mexico acquired Texas in the early 1800's and brought the indigenous Indians into Mexican life and government.

The child's rapid acquisition of political knowledge also promotes the growth of political ideology during adolescence.

In Anglo-Saxon countries hardly any of these benefits obtain, but it has still been possible to glean information from the study of legal documents.

In 1953 when *The Second Sex* first appeared in translation in the United States, the country had entered the silent, fearful fortress of the anticommunist McCarthy years (1950-1954), and Beauvoir was suspected of Marxist sympathies.

Woolf's focus on society has not been generally recognized because of her intense antipathy to propaganda in art.

Yet the cormorant's twig-presentation simply inhibits attack and is comparable to other appeasement rituals found in many species.

Islam, on the other hand, represented a radical breakaway from the Arab paganism that preceded it;

The recent change to all-volunteer armed forces in the United States will eventually produce a gradual increase in the proportion of women in the armed forces and in the variety of women's

Such a "sociodemographic" approach tends to regard assimilation as a benign process, taking for granted increased economic advantage and inevitable cultural integration, in a supposedly

Such a "sociodemographic" approach tends to regard assimilation as a benign process, taking for granted increased economic advantage and inevitable cultural integration, in a supposedly

In the 1750's, when salons were firmly established in France, some English women, who called themselves "Bluestocking," followed the example of the *salonnieres* (French salon hostesses) and formed their own salons.

The case of Verdi is a different one: he took a popular genre—bourgeois melodrama set to music (an accurate definition of nineteenth-century opera)—and, without altering its fundamental nature, transmuted it into high art.

Even the two other representatives of sacred law that are historically and geographically nearest to it, Jewish law and Roman Catholic canon law, are perceptibly different.

Members of both groups communicate to each other hunger, alarm, hostility, caste status or rank, and reproductive status.

Now we must also examine the culture as we Mexican Americans have experienced it, passing from a sovereign people to compatriots with newly arriving settlers to, finally, a conquered people—a charter minority on our own land.

This cultural and political emphasis is appropriate, but the colonialist thinkers misdirect it, overlooking the class relations at work in both Puerto Rican and North American history.

In our frustration, our initial response was simply to change drugs rather than our conceptual orientation.

When blood relationships were few, as in newly created plantations in the Southwest, "fictive" kinship arrangements took their place until a new pattern of consanguinity developed.

The elements of coercion and inequality, so central to cultural contact according to the colonialist framework play no role in this kind of convergence of racially and ethnically different elements of the same social class.

There is, of course, a strong tradition of cultural accommodation among other Puerto Rican thinkers.

Such a "sociodemographic" approach tends to regard assimilation as a benign process, taking for granted increased economic advantage and inevitable cultural integration, in a supposedly

Even as the number of females processed through juvenile courts climbs steadily, an implicit consensus remains among scholars in criminal justice that male adolescents define the delinquency problem in the United States.

It has been societies that have had a developed police system and practiced Roman law, with its written depositions, whose court records have yielded the most data to historians.

It imposes upon the past the same determinism that it imposes upon the present, thus robbing people and events of their individuality and of their complexity.

The growing emphasis on deterrence is bound to offer increasing scope for women to become involved in novel types of noncombat military assignments.

In both kinds of society there is a well-marked division of labor.

But the conflict between state and religion took different forms; in Christianity it appeared as the struggle for political power on the part of a tightly organized ecclesiastical hierarchy, and canon law was one of its political weapons.

In eighteenth-century France and England, reformers rallied around egalitarian ideals, but few reformers advocated higher education for women.

Jacksonian America was not a fluid, egalitarian society where individual wealth and poverty were ephemeral conditions.

Further, during those times, people existed in nuclear or extended family groups, and the sharing of food was quite literally supporting one's family or, by extension, preserving one's self.

nor is Picasso ' s painting *Guernica* primarily a propositional statement about the Spanish Civil War or the evils of fascism

These historians, however, have analyzed less fully the development of specifically feminist ideas and activities during the

Game theory is pressed into service (暂时征用) in studies of shifting international alliances.

Garrison government allowed the colonists a legislative assembly, but real authority, in Webb ' s view, belonged to the colonial governor, who was appointed by the king and supported by the "garrison," that is, by the local contingent of English troops under the colonial governor's command.

Backed by the military presence of the garrison, these governors tried to prevent the gentry and merchants, allied in the colonial assemblies, from transforming colonial America into a capitalistic

In her novels, Woolf is deeply engaged by the questions of how individuals are shaped (or deformed) by their social environments, how historical forces impinge on people's lives, how class, wealth, and gender help to determine people's fates.

When the Spanish first came to Mexico, they intermarried with and absorbed the culture of the indigenous Indians.

Such discrimination sometimes stopped short of lifetime servitude or inherited status—the two attributes of true slavery—yet in other cases it included both. The Handlins' argument excludes the real possibility that Black people in the English colonies were never treated as the equals of White people.

Canon and Islamic aw, on the contrary, were dominated by the dualism of religion and state, where the state was not, in contrast with Judaism, an alien power but the political expression of the same religion.

Rather, Gutman argues that one must look to the Black family and the slaves ' extended kinship system to understand how crucial achievements were possible.

Such discrimination sometimes stopped short of lifetime servitude or inherited status—the two attributes of true slavery—yet in other cases it included both.

But the Puerto Rican intellectuals who have written most about the assimilation process in the United States all advance cultural nationalist views, advocating the preservation of minority cultural distinctions and rejecting what they see as the subjugation of colonial nationalities.

Though historically there is a discernible break between Jewish law of the sovereign state of ancient Israel and of the Diaspora (the dispersion of Jewish people after the conquest of Israel), the spirit of the legal matter in later parts of the Old Testament is very close to that of the Talmud, one of the primary codifications of Jewish law in the Diaspora.

If power seems omnipresent, it is not because it has the privilege of consolidating everything under its invincible unity, but because it is produced from one moment to the next, at every point, or rather in every relation from one point to another.

Just as young children can count numbers in series without grasping the principle of ordination, young adolescents may have in their heads many random bits of political information without a secure understanding of those concepts that would give order and meaning to the information.

The writings of Eugenio Fernandez Mendez clearly exemplify this tradition, and many supporters of Puerto Rico's commonwealth status share the same universalizing orientation.

It was, according to Webb, the colonial governors who favored the small farmer, opposed the plantation system, and tried through taxation to break up large holdings of land.

Pessen overestimates their importance by concluding from them that the undoubted progress toward inequality in the late eighteenth century continued in the Jacksonian period and that the United States was a class-ridden, plutocratic society even before industrialization.

Webb's study illuminates the political alignments that existed in the colonies in the century prior to the American Revolution, but his view of the crown's use of the military as an instrument of colonial policy is not entirely convincing.

Generally in the plots of these operas, a hero or heroine—usually portrayed only as an individual, unfettered by class—is caught between the immoral corruption of the aristocracy and the doctrinaire rigidity or secret greed of the leaders of the proletariat.

Woolf's focus on society has not been generally recognized because of her intense antipathy to propaganda in art.

They are committed, not just to psychology in general, but to Freudian psychoanalysis.

The English women, though somewhat puritanical, were more casual in their approach.

it highlights an aspect of her literary interests very different from the traditional picture of the "poetic" novelist concerned with examining states of reverie and vision and with following the intricate pathways of individual consciousness.

Islamic law is a particularly instructive example of "sacred law."

The earliest and most popular of the utopian socialists were the Saint-Simonians.

Since science tries to deal with reality, even the most precise sciences normally work with more or less imperfectly understood approximations toward which scientists must maintain an appropriate skepticism.

The elements of coercion and inequality, so central to cultural contact according to the colonialist framework play no role in this kind of convergence of racially and ethnically different elements of the same social class.

Many North American social scientists, such as Oscar Handlin, Joseph Fitzpatrick, and Oscar Lewis, consider Puerto Ricans as the most recent in a long line of ethnic entrants to occupy the lowest rung on the social ladder.

Even the "radical" critiques of this mainstream research model, such as the critique developed in Divided Society, attach the issue of ethnic assimilation too mechanically to factors of economic and social mobility and are thus unable to illuminate the cultural subordination of Puerto Ricans as a colonial minority.

Models from economics and demography become the definitive tools for examining the financial base of social security.

Discussion of the assimilation of Puerto Ricans in the United States has focused on two factors: social standing and the loss of

American feminist activists who have been described as “solitary” and “individual theorists” were in reality connected to a movement—utopian socialism—which was already popularizing feminist ideas in Europe during the two decades that culminated in the first women’s rights conference held at Seneca Falls, New York, in 1848.

I do not mean, either, a mode of subjugation that, in contrast to violence, has the form of the rule.

By power, I do not mean a group of institutions and mechanisms that ensure the subservience of the citizenry.

ts acquisition by the adolescent, in even the most modest sense, requires the acquisition of relatively sophisticated cognitive skills: the ability to manage abstractness, to synthesize and generalize, to imagine the future.

Throughout human history there have been many stringent taboos concerning watching other people eat or eating in the presence of others.

Though the Bluestockings were trailblazers when compared with the salonnieres, they were not feminists.

First, female adolescents are accused primarily of victimless crimes, such as truancy, that do not involve clear-cut damage to persons or property.

his complementarity reflects the fact that, while the Saint-Simonians did not reject the belief that there were innate differences between men and women, they nevertheless foresaw an equally important social and political role for both sexes in their utopia.

Art

Achilles	阿喀琉斯;（希腊英雄。儿时被其母放入冥河得以刀枪不入，但被其母抓住的足跟并没有获此神力。后被特洛伊王子帕里斯刺伤足跟而死。后世常用Achilles heel指代致命的要害。）
allusion	暗示，典故，
arias	【音乐】(尤指独唱有伴奏的)曲调；(歌剧等中的)咏叹调； 【电影】独唱特写镜头
art capital of the world	世界艺术之都
buoyant	活跃的，浮力的
chronology	n. 年表；年代学；(事件等)按年月次序的排列
close-ups	［电影］特写镜头，特写
Colonial period	殖民地时期
compounds	合成词，复杂词（比如peep和hole两个简单词就能组成一个合成词peephole）
contemplative	沉思的
cropping	剪辑，裁剪
crosscut	(电影、电视)倒叙，插叙
Cubist	立体派的；立体主义的

cynicism	犬儒主义（愤世嫉俗）
disconcerting	令人不安的
disjunctions	分裂，分开
doctrinaire	教条主义的
egocentricity	自我为中心论
evangelical	福音派教会的；新教会的
expressionism	表现主义(20世纪初叶一种以绘画、音乐、诗歌、戏剧为主的西方现代主义文学艺术流派)
field practice	野外实习；现场应用
flashback	倒叙；闪回
folk art	民间艺术
folk tunes	民歌

folklore	民俗学；民间传说；民间风俗
genre painting	风俗画（以日常生活为题材之写实画）；浮世绘
Greek myths	希腊神话
grid pattern	[计] 网格图形
high art	高雅艺术
ideology circumvent	意识形态的渗透、包围
Iliad	《伊利亚特》；古希腊描写围攻特洛伊战争的史诗
indulgence	嗜好，纵容
involuntary memory	非自主记忆（并非主观记下的记忆）
juxtaposition	并列，并置，合并
melodrama	n. 情节剧；音乐剧
metaphysical	形而上学的，超自然的，抽象的
misnomer	用词不当
mores	习俗
multireel	多磁带卷

naturalistic	（文学、艺术上)自然主义的，写实主义的
Neolithic times	新石器时代
nostalgia	怀旧，复古
note	音符
Odyssey	奥德赛；希腊史诗
polemic	争辩的
Puritan culture	清教徒文化
radicals	词根
Ragtime	拉格泰姆爵士音乐；该流派的特色是常加入钢琴元素
reflectivity	n.［物］反射率；［光］反射性；反射比
running time	【电影】(影片等的)放映时间
schematize	系统的总结
seismic-reflection	地震波反射

semantic	语义的
strains	曲调
surrealism	超现实主义
syncopate	切分音（改变乐曲中强拍上出现重音的规律，使弱拍或强拍弱部分的音，因时值延长而成为重音。这重音称为切分音）
syntax	语法；句法；有秩序的排列
thematic analysis	主题分析
tranquil	平静的
trio	三人组
verbose	啰嗦的
Wesleyan	卫斯理公会派（基督教新教七大宗派之一）

readers are asked to identify with the mind of Achilles, whose motivations render him a not particularly likable hero.

Many readers are convinced that the compelling mysteries of each plot conceal elaborate structures of allusion and fierce though shadowy, moral ambitions that seem to indicate metaphysical intentions,

There are scenes and arias that still sound like calls to arms and were clearly understood as such when they were first performed.

it was only after 1945—when New York was rapidly becoming the art capital of the world—that major sculpture was produced in the United States.

The apparently fundamental changes that led from epic narrative to dogmatic parable, from a joyous, buoyant attitude toward life to pessimism and cynicism, from *War and Peace* to The *Kreutzer Sonata*, came from the same restless, impressionable depths of an independent spirit yearning to get at the truth of its experience.

Looking at novels written by Blacks over the last eighty years, he discovers recurring concerns and designs independent of

By 1910 he was using close-ups to reveal significant details of the scene or of the acting and extreme long shots to achieve a sense of spectacle and distance.

Within the larger framework of American colonial life, then, not the Southern but the Puritan colonies appear to have been distinctive, and even they seem to have been rapidly assimilating to the dominant cultural patterns by the late Colonial period.

Nahuatl, like Greek and German, is a language that allows the formation of extensive compounds.

Woolf's own social criticism is expressed in the language of observation rather than in direct commentary, since for her, fiction is a contemplative, not an active art.

And they depict an individual photographer's temperament, discovering itself through the camera's cropping of reality.

These included the flashback, permitting broad psychological and emotional exploration as well as narrative that was not chronological, and the crosscut between two parallel actions to heighten suspense and excitement.

Her works have been compared to the Cubist constructions of Picasso, the Surrealistic objects of Miro, and the Merzbau of Schwitters.

The apparently fundamental changes that led from epic narrative to dogmatic parable, from a joyous, buoyant attitude toward life to pessimism and cynicism, from *War and Peace* to The *Kreutzer Sonata*, came from the same restless, impressionable depths of an independent spirit yearning to get at the truth of its experience.

Tolstoi ' s simplicity is " overpowering, " says the critic Bayley, " disconcerting, " because it comes from " his casual assumption that the world is as he sees it."

Both novelists use a storytelling method that emphasizes ironic disjunctions between different perspectives on the same events as well as ironic tensions that inhere in the relationship between surface drama and concealed authorial intention

Generally in the plots of these operas, a hero or heroine — usually portrayed only as an individual, unfettered by class—is caught between the immoral corruption of the aristocracy and the doctrinaire rigidity or secret greed of the leaders of the proletariat.

He is the center of his work, but his egocentricity is of a special kind.

The appropriateness of such an approach may seem self-evident for a tradition commencing with spirituals and owing its early forms, rhythms, vocabulary, and evangelical fervor to Wesleyan hymnals

In addition, the style of some Black novels, like Jean Toomer's *Cane*, verges on expressionism or surrealism; does this technique provide a counterpoint to the prevalent theme that portrays the fate against which Black heroes are pitted, a theme usually conveyed by more naturalistic modes of expression?

In field practice, a subsurface is mapped by arranging a series of wave-train sources, such as small dynamite explosions, in a grid pattern.

These included the flashback, permitting broad psychological and emotional exploration as well as narrative that was not chronological, and the crosscut between two parallel actions to heighten suspense and excitement.

The Hollywood Western of the 1930's, for example, has elements of folklore, but is closer to junk than to high art or folk art.

A strong analogy exists between European composers like Ralph Vaughan Williams, Edvard Grieg, and Anton Dvorak who combined folk tunes and their own original materials in larger compositions and the pioneer ragtime composers in the United States

“Popular art” has a number of meanings, impossible to define with any precision, which range from folklore to junk.

But genre painting, especially when it portrayed members of the humblest classes, was never popular in eighteenth-century France.

Portrayals of the folk of Mecklenburg County, North Carolina, whom he remembers from early childhood, of the jazz musicians and tenement roofs of his Harlem days, of Pittsburgh steelworkers, and his reconstruction of classical Greek myths in the guise of the ancient Black kingdom of Benin, attest to this.

In field practice, a subsurface is mapped by arranging a series of wave-train sources, such as small dynamite explosions, in a grid pattern.

The musicals of George Gershwin are great popular art, never aspiring to high art.

Although fiction assuredly springs from political circumstances, its authors react to those circumstances in ways other than ideological, and talking about novels and stories primarily as instruments of ideology circumvents much of the fictional enterprise.

Of Homer’s two epic poems, the *Odyssey* has always been more popular than the *Iliad*, perhaps because it includes more features of mythology that are accessible to readers.

In this instance, the new impulse was at least an energetic one, and thus its indulgence did not result in a relaxed style.

Draft passages in Proust’s 1909 notebooks indicate that the transition from essay to novel began in *Contre Saint-Beuve*, when Proust introduced several examples to show the powerful influence that involuntary memory exerts over the creative imagination.

Of these forms the most characteristic in Nahuatl is the juxtaposition of two words that, because they are synonyms, associated terms, or even contraries, complement each other to evoke one single

Verdi’s characters, on the other hand, have genuine consistency and integrity, even if, in many cases, the consistency is that of pasteboard melodrama.

Many readers are convinced that the compelling mysteries of each plot conceal elaborate structures of allusion and fierce, though shadowy, moral ambitions that seem to indicate metaphysical intentions,

Indeed, the term “pillow,” itself suggestive of discrete masses, is probably a misnomer.

As a moralist, Woolf works by indirection, subtly undermining officially accepted mores, mocking, suggesting, calling into question, rather than asserting, advocating, bearing witness: hers is the satirist’s art.

Griffith’s introduction of the American-made multireel picture began an immense revolution.

In addition, the style of some Black novels, like Jean Toomer's *Cane* , verges on expressionism or surrealism; does this technique provide a counterpoint to the prevalent theme that portrays the fate against which Black heroes are pitted, a theme usually conveyed by more naturalistic modes of expression?

Since Neolithic times, sculpture has been considered the prerogative of men, partly, perhaps, for purely physical reasons: it was erroneously assumed that women were not suited for the hard manual labor required in sculpting stone, carving wood, or working in metal.

This nostalgia for some pristine state of the photographic enterprise is currently widespread and underlies the present-day enthusiasm for daguerreotypes and the wok of forgotten nineteenth-century provincial photographers.

The aim of the structure is to rise from one theme to another in a stair-step manner, ending on a note of triumph or exhilaration.

Of Homer's two epic poems, the *Odyssey* has always been more popular than the *Iliad* , perhaps because it includes more features of mythology that are accessible to readers.

Like Chaucer, Woolf chose to understand as well as to judge, to know her society root and branch—a decision crucial in order to produce art rather than polemic.

The American culture that emerged during the Colonial and Revolutionary eras has been depicted as having been simply an extension of New England Puritan culture.

By the combination of radicals or semantic elements, single compound words can express complex conceptual relations, often of an abstract universal character.

Ragtime is a musical form that synthesizes folk melodies and musical techniques into a brief quadrille-like structure, designed to be played—exactly as written—on the piano.

The resultant warming at the surface could be expected to melt snow and ice, reducing the Earth's reflectivity.

Two years later, Judith of Bethulia, an elaborate historicophilosophical spectacle, reached the unprecedented length of four reels, or one hour's running time.

ut on other occasions Hardy abandoned a perilous, risky, and highly energizing impulse in favor of what was for him the fatally relaxing impulse to classify and schematize abstractly.

Because of its accuracy in outlining the Earth's subsurface, the seismic-reflection method remains the most important tool in the search for petroleum reserves.

By the combination of radicals or semantic elements, single compound words can express complex conceptual relations, often of an abstract universal character.

The classic formula for the piano rag disposes three to five themes in sixteen-bar strains, often organized with repeats.

In addition, the style of some Black novels, like Jean Toomer's *Cane* , verges on expressionism or surrealism; does this technique provide a counterpoint to the prevalent theme that portrays the fate against which Black heroes are pitted, a theme usually conveyed by more naturalistic modes of expression?

Tension in ragtime compositions arises from a polarity between two basic ingredients: a continuous bass—called by jazz musicians a boom-chick bass—in the pianist's left hand, and its melodic, syncopated counterpart in the right hand.

Despite the reluctance of his producers, who feared that the public would not be able to follow a plot that was made up of such juxtaposed images, Griffith persisted, and experimented as well with other elements of cinematic syntax that have become standard ever since.

Rosenblatt's thematic analysis permits considerable objectivity; he even explicitly states that it is not his intention to judge the merit of the various works—yet his reluctance seems misplaced, especially since an attempt to appraise might have led to interesting results.

"Masterpieces are dumb," wrote Flaubert, "They have a tranquil aspect like the very products of nature, like large animals and mountains."

The rag opens with a bright, memorable strain or theme, followed by a similar theme, leading to a trio of marked lyrical character, with the structure concluded by a lyrical strain that parallels the rhythmic developments of the earlier themes.

When a relaxing impulse was indulged, the style—that sure index of an author's literary worth—was certain to become verbose.

The appropriateness of such an approach may seem self-evident for a tradition commencing with spirituals and owing its early forms, rhythms, vocabulary, and evangelical fervor to Wesleyan hymnals.