

A r nirmal kumar scientist crop physiology

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Plant Physiology: Its Pioneers and Significance**

Father of Plant Physiology

The title of "Father of Plant Physiology" is bestowed upon **Jean Senebier**, a Swiss biologist who made pioneering contributions to understanding photosynthesis.

Father of Crop Physiology

Sir John Bennet Lawes is considered the "Father of Crop Physiology" for his groundbreaking research on plant nutrition and agricultural practices.

Aim of Crop Physiology

Crop physiology aims to study the physiological processes and responses of crops to environmental factors, cultural practices, and genetic variations.

Father of Experimental Plant Physiology

Julius von Sachs is recognized as the "Father of Experimental Plant Physiology" for his meticulous investigations on plant metabolism, growth, and development.

Father of Physiology

Claude Bernard is often referred to as the "Father of Physiology" for his significant contributions to the field of physiology, including experiments on digestion and metabolism.

Father of Plant Anatomy and Physiology

Nehemiah Grew is known as the "Father of Plant Anatomy and Physiology" for his detailed observations and discoveries of plant structures and functions.

First Scientist to Study Plants

Theophrastus is considered the first scientist to study plants and establish the field of botany with his two volumes on plant biology.

Difference Between Plant Physiology and Crop Physiology

Plant physiology focuses on the general physiological processes of all plants, while crop physiology specifically studies the physiological aspects of plants grown for agricultural purposes.

Importance of Plant Physiology

Plant physiology provides insights into fundamental plant processes, enabling the development of agricultural practices that optimize plant growth, yield, and resilience.

Significance in Agronomy

Plant physiology forms the foundation of agronomy, a field concerned with crop production and management, by providing an understanding of plant responses to environmental and agricultural inputs.

Father of Fundamentals of Crop Physiology

N. T. Singh is recognized as the "Father of Fundamentals of Crop Physiology" for his seminal work on crop growth, development, and yield.

Plant Physiology Terminology

Plant physiology is also known as phytophysiology.

Publication of Plant Physiology

The American Society of Plant Biologists publishes the prestigious journal "Plant Physiology."

Goal of Physiology

A R NIRMAL KUMAR SCIENTIST CROP PHYSIOLOGY

The ultimate goal of physiology is to understand the function and regulation of living organisms at the molecular, cellular, and whole-body levels.

Father of Modern Physiology

William Harvey is hailed as the "Father of Modern Physiology" for his revolutionary discoveries on blood circulation.

Four Types of Physiology

- Human physiology
- Animal physiology
- Plant physiology
- Comparative physiology

Father of Physiological Genetics

Gregor Mendel is widely regarded as the "Father of Physiological Genetics" for his groundbreaking work on inheritance and genetic variation.

Founder of Physiology

Hippocrates is considered the "Father of Medicine" and is often credited as the founder of physiology as a scientific discipline.

Who is Billy Graham biography? Billy Graham (born November 7, 1918, Charlotte, North Carolina, U.S.—died February 21, 2018, Montreat, North Carolina) was an American evangelist whose large-scale preaching missions, known as crusades, and friendship with numerous U.S. presidents brought him to international prominence.

What type of evangelist was Billy Graham? William Franklin Graham Jr. (/ˈɡræm/; November 7, 1918 – February 21, 2018) was an American evangelist, ordained Southern Baptist minister and civil rights advocate whose broadcasts and world tours featuring live sermons became well known in the mid- to late 20th century.

Why was Billy Graham important? Billy Graham preached the Gospel of Jesus Christ to some 215 million people who attended one of his more than 400 Crusades,

simulcasts and evangelistic rallies in more than 185 countries and territories.

What were Billy Graham's achievements? He founded two magazines, Christianity Today and Decision. His syndicated newspaper column, “My Answer” reached 5 million readers. He authored 33 books. Billy's image appeared on the covers of Time, Newsweek, People, The Saturday Evening Post, and countless others.

Was Billy Graham a faithful husband? Billy Graham, who passed away this week at age 99, was not only the world's best-known evangelist who prayed with U.S. presidents on both sides of the political aisle, he was also a faithful husband—married 63 years to Ruth Graham with whom he raised five children.

What is the Billy Graham rule? It is well known that from the earliest days of their ministry together, Billy Graham and his team made a rule not to be alone with a woman to whom they were not married—for example, in a car or in a restaurant. This rule was both to maintain their purity and their reputation.

What Bible did Billy Graham read? I used to think that an accurate translation had to be “word for word”, ie, literally word for word. And at the time, I believed the KJV was 'the' bible to use and that other English bibles were inferior to the KJV.

What were Billy Graham's last words? LAST WORDS CAPTURED BY BILLY GRAHAM EVANGELISTIC ASSOCIATION I know am going to heaven, I am looking forward to it with great anticipation because of what Jesus did on the cross, He died for us but was raised by God. I found out in the latter years of my life, when i have sicknesses, pains and lost.

Who was Billy Graham's wife? Ruth Bell Graham, wife of Billy Graham and mother of five, spent hours praying that her children would learn to love and follow Jesus. “We mothers must take care of the possible and trust God for the impossible,” she said.

What is Billy Graham's message? The Message Billy Graham's message has never changed, and it never will. It is a simple message, but one that comes straight from God's Word. “For God so loved the world that He gave His only begotten Son, that whoever believes in Him should not perish but have everlasting life” (John 3:16,

NKJV).

What was Billy Graham's most famous quote? 1. "When wealth is lost, nothing is lost; when health is lost, something is lost; when character is lost, all is lost."

Did Billy Graham support the Catholic Church? Though Billy Graham was not a Catholic, as a Christian he dedicated his life to preaching the redemptive love of Jesus Christ for all mankind, and he had friendships with prominent Catholics like St. John Paul II.

What was Billy Graham's favorite food? Billy Graham loved God, lemon cake and Vienna sausages.

How did Billy Graham acquire his wealth? Billy Graham was also a wealthy man, leaving behind a fortune of real estate holdings, book royalties, and more—though biographers say his humility made him turn down opportunities to earn much more.

Who preached Billy Graham's funeral? Graham's elder son, the Rev. Franklin Graham, who is president and CEO of the Billy Graham Evangelistic Association and Samaritan's Purse, delivered the sermon. "There weren't two Billy Grahams," Franklin said.

Did Billy Graham have health issues? Graham was hospitalized in January 2023 as a result of an ear and skull infection that had left him deaf. By April, his condition had worsened; he had lost 80 pounds and was being treated for kidney, heart and lung problems.

Did Billy Graham have a crisis of faith? Did you know Billy Graham experienced a crisis of faith early on in his ministry? He began to question whether or not the Bible was truly the inspired Word of God. Watch the video to hear the story.

What did Billy Graham say about his mother?

What is the Billy Graham rule in Christianity today? The Modesto Manifesto or Billy Graham rule is a code of conduct among male evangelical Protestant leaders, in which they avoid spending time alone with women to whom they are not married.

Was Billy Graham friends with the Pope? Billy Graham and Pope John Paul II continued their friendship after meeting in 1981. A few years later, Rev. Graham was asked by the pope to preach on the subject of family at a Scripture and prayer service in South Carolina.

What did Billy Graham do before preaching? Before becoming an evangelist, many people may not know or realize, Billy Graham pastored a church. Despite his initial nerves, Billy Graham pressed on, knowing God had called him to preach. Mr. Graham was ordained a Southern Baptist pastor in 1939 in the St.

What were Billy Graham's last words? LAST WORDS CAPTURED BY BILLY GRAHAM EVANGELISTIC ASSOCIATION I know am going to heaven, I am looking forward to it with great anticipation because of what Jesus did on the cross, He died for us but was raised by God. I found out in the latter years of my life, when i have sicknesses, pains and lost.

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Who went to Billy Graham's funeral? President Donald Trump and Vice President Mike Pence weren't the only dignitaries and other big names at evangelist Billy Graham's funeral. The pope's representative in the United States, Papal Nuncio Christophe Pierre, had a front-row seat for the funeral, next to Gov. Roy Cooper, the Trumps and Pences.

What was the first Afrikaans Bible? The first complete Bible translation in Afrikaans was published in 1933. This article focuses on describing and analysing this translation. Given new developments in translation studies, one should not evaluate a translation normatively but rather describe it.

How old is the Afrikaans Bible? The official Afrikaans Bible translations, published in 1933/1953, 1983 and 2020, influenced Reformed theology, sociopolitical

perceptions and the role of the church in society. These issues bled through in the translations via the hermeneutical scope of the different eras.

Who prints Bibles in South Africa? The Bible Society of South Africa specialises in making affordable Bibles available in 11 official languages of South Africa so that everyone may experience the life-giving message of the Word.

What is the oldest Bible in Africa? The Garima Gospels are the oldest translation of the Bible in Ge'ez and the world's earliest complete illustrated Christian manuscript. Monastic tradition holds that they were composed close to the year 500, a date supported by recent radiocarbon analysis; samples from Garima 2 proposed a date of c.

Is Afrikaans a dying language? "It's not a 'dying language', and it's not only spoken by 44 people. It's spoken by millions of people; there are new songs and poems being written every day, movies made etc. It's a language with its roots in several languages and cultures, including Dutch, Malay, Indonesian and our indigenous San languages.

What is the oldest Bible in Earth? Codex Sinaiticus Petropolitanus, Oxford.

Is Afrikaans older than Dutch? Afrikaans descended from Dutch dialects in the 17th century.

Which country brought Bible to Africa? The Bible was brought to these parts of Africa relatively recently, initially (1415–1787) with the wave of explorers, traders and ecclesial representatives of the medieval Catholic Church, directed by Portugal.

Which Bible was printed first? Gutenberg Bible, the first complete book extant in the West and one of the earliest printed from movable type, so called after its printer, Johannes Gutenberg, who completed it about 1455 working at Mainz, Germany.

Who introduced the Bible in South Africa? The Christian religion was introduced to South Africa by European settlers and later missionaries in the 17th century. This introduction started with the arrival of Jan van Riebeeck from the Netherlands in 1652.

Which Bible is the most printed?

Which Bible has all 88 books? The Ethiopian Bible contains 81-88 books including the book of Enoch, Esdras, Baruch and all 3 books of Maccabees, and is the oldest Bible in the world presently.

Is the Ethiopian Bible older than King James? The Ethiopian Bible is older than the King James. Thank you. That's exactly right.

What language did Jesus speak? There exists a consensus among scholars that the language of Jesus and his disciples was Aramaic. Aramaic was the common language of Judea in the first century AD. The villages of Nazareth and Capernaum in Galilee, where Jesus spent most of his time, were Aramaic-speaking communities.

What language is closest to Afrikaans? Unsurprisingly, Afrikaans was found to be most closely related to Dutch. When Afrikaans was compared to 361 Dutch and Frisian dialects, the South-Hollandic varieties were found to be closest to Afrikaans.

What country speaks the most Afrikaans? Afrikaans is spoken as a first language by more than 6.9 million people and as a second language by about 10.3 million people in South Africa. Afrikaans comes from the 17th-century Dutch which was spoken by European colonists and their slaves.

Why is Afrikaans so difficult to learn? Afrikaans has a number of unique sounds like the "guttural r", the hard "g" and the trilled "r" that do not exist in many other languages. This can be difficult for speakers of other languages to master. The Afrikaans trilled r, which interestingly also exists in Russian, is formed in the front of the mouth.

Which Bible is the closest to the original? King James I and the Geneva Bible.

Where is the original Bible kept? The oldest example we have of a complete Bible, containing the New Testament as we know it today (and in its original Greek), is probably the Codex Vaticanus, which was created in the early 4th century CE. It is kept in the Vatican archives.

Why was the book of Enoch removed from the Bible? Apart from this community, the Book of Enoch was excluded from both the formal canon of the Tanakh and the Septuagint and therefore, also from the writings known today as the Deuterocanon.

The main reason for Jewish rejection of the book is that it is inconsistent with the teachings of the Torah.

Do boers still exist? Boer, (Dutch: “husbandman,” or “farmer”), a South African of Dutch, German, or Huguenot descent, especially one of the early settlers of the Transvaal and the Orange Free State. Today, descendants of the Boers are commonly referred to as Afrikaners.

Who created Afrikaans? Afrikaans language, West Germanic language of South Africa, developed from 17th-century Dutch, sometimes called Netherlandic, by the descendants of European (Dutch, German, and French) colonists, indigenous Khoisan peoples, and African and Asian slaves in the Dutch colony at the Cape of Good Hope.

Why are they called boers? The term Boer, derived from the Afrikaans word for farmer, was used to describe the people in southern Africa who traced their ancestry to Dutch, German and French Huguenot settlers who arrived in the Cape of Good Hope from 1652.

Which Bible was the first Bible? Codex Sinaiticus, the earliest known manuscript of the Christian Bible, compiled in the 4th century ce. In 1844, 43 leaves of a 4th-century biblical codex (a collection of single pages bound together along one side) were discovered at St. Catherine's Monastery at the foot of Mount Sinai (hence the name Sinaiticus).

When did the first Bible arrive in South Africa? Christianity came to South Africa in 1652, but missionary outreach to the indigenous population only began in earnest in the 19th century. The first formal-equivalent Bible translations were done by missionaries in the latter part of the 19th and early 20th century.

What is the name of the Bible in Afrikaans? Die Bybel in Afrikaans - The Holy Bible in Afrikaans.

What is the oldest Bible in the world? Codex Sinaiticus Petropolitanus, Oxford.

What are the 14 books removed from the Bible?

Which Bible is the closest to the original? King James I and the Geneva Bible.

Which is the oldest holy book in the world? History of religious texts One of the oldest known religious texts is the Kesh Temple Hymn of ancient Sumer, a set of inscribed clay tablets which scholars typically date around 2600 BCE.

When was the first Afrikaans Bible written? The first complete Bible translation in Afrikaans was published in 1933. This article focuses on describing and analysing this translation. Given new developments in translation studies, one should not evaluate a translation normatively but rather describe it.

Who did African worship before Christianity? Native African religions are centered on ancestor worship, the belief in a spirit world, supernatural beings and free will (unlike the later developed concept of faith). Deceased humans (and animals or important objects) still exist in the spirit world and can influence or interact with the physical world.

Which country brought Bible to Africa? The Bible was brought to these parts of Africa relatively recently, initially (1415–1787) with the wave of explorers, traders and ecclesial representatives of the medieval Catholic Church, directed by Portugal.

What is the original Bible in Africa? The Garima Gospels are three ancient Ethiopic manuscripts containing all four canonical Gospel Books, as well as some supplementary material like lists of Gospel chapters. Garima 2, the earliest, is believed to be the earliest surviving complete illuminated Christian manuscript.

What is Ethiopian Bible called? The Ethiopian Bible is often referred to as the Garima Gospels: named for the monk who reportedly wrote the book after he arrived in Ethiopia from Constantinople sometime around A.D. 494.

Is there any African name in the Bible? Did you know that the names of Abraham, Isaac, Esau and Jacob were derived from African tribal words and names? Did you know that the earliest “Hebrew” name for God, Adonia, was derived from an African tribal word? Did you know that the other name of God, Yahweh, was derived from the name of an African Tribal God?

What language did Jesus speak? There exists a consensus among scholars that the language of Jesus and his disciples was Aramaic. Aramaic was the common language of Judea in the first century AD. The villages of Nazareth and Capernaum

in Galilee, where Jesus spent most of his time, were Aramaic-speaking communities.

Where is the original Bible kept? The oldest example we have of a complete Bible, containing the New Testament as we know it today (and in its original Greek), is probably the Codex Vaticanus, which was created in the early 4th century CE. It is kept in the Vatican archives.

What Bible existed before King James? Other English Bibles before the King James Bible – the Great Bible, the Bishops' Bible, and the Rheims-Douai Bible. The Great Bible (1539-40), and the Bishops' Bible (1568), were 'appointed' or 'authorised' for official use in the reformed Church of England.

What is the waveguide port in CST? Waveguide ports represent a special kind of boundary condition of the calculation domain, enabling the stimulation as well as the absorption of energy.

How to simulate an antenna in CST?

How to set frequency in CST?

How to create a port in CST?

Why do we use waveguide instead of transmission line? Advantages of Waveguides Power loss is very negligible in waveguides. They offer very low loss lowvalueofalpha?attenuation. When microwave energy travels through waveguide, it experiences lower losses than a coaxial cable.

What is the difference between waveguide port and discrete port? In waveguide port, electric and magnetic fields are the inputs. But in discrete port, current is the input from which generated the fields.

How do you know the polarization of an antenna in CST? How can we find the polarization? You have to check the E-field pattern on left side in 2D/3D Results in CST, if those lines are vertically spread then it is vertical polarization. Otherwise, if electric field arrows are horizontally scattered on the antenna then it is horizontally polarized.

How do you calculate the efficiency of an antenna in CST? efficiency in cst
 $\text{Efficiency} = \text{radiated power} / \text{power fed to the antenna}$, but don't get surprised if this goes over 100% sometimes, if the system is lossless.

How do I increase the frequency of my antenna? Size matters when it comes to gain. Larger directional antennas are capable of higher gain figures based on increased surface area and aperture. The composition of materials used, such as brass, copper or aluminum, impact overall antenna efficiency for converting electrical signals into radiated signals.

How do you set boundaries in CST? You can apply appropriate boundary condition in CST by selecting solve menu then select boundary condition option and apply the boundary condition according to your geometry. It depends on the type of excitation.

How do I change my excitation signal in CST?

How to do optimization in CST? Using an evolutionary approach to optimization, the Genetic Algorithm generates points in the parameter space and then refines them through multiple generations, with random parameter mutation. By selecting the “fittest” sets of parameters at each generation, the algorithm converges to a global optimum.

What size waveguide port for CST? CST manual shows a very simple method for the waveguide port setup in Microwave studios. Generally the width of the port is 5*times width of the Microstrip line, while the length doesn't effect the overall settings (as per my experience). It is better to use HFSS from the point of waveport dimension.

What are the different types of ports in CST? Types of Port Ports in CST MICROSTRIPES; now fall into one of two fundamental categories: waveguide-and-transmission-line-ports, or wire-ports. At present it is not possible to attach a port inside a lumped-component circuit.

What is a discrete port in CST? Discrete ports are mainly used to simulate lumped element sources inside the calculation domain. These ports are a good approximation for the source in the feeding point of antennas when calculating

farfields. In some cases, these ports may also be used to terminate coaxial cables or microstrip lines.

What is the disadvantage of waveguide?

Is a coaxial cable a waveguide? Coaxial cable may be viewed as a type of waveguide. Power is transmitted through the radial electric field and the circumferential magnetic field in the TEM mode. This is the dominant mode from zero frequency (DC) to an upper limit determined by the electrical dimensions of the cable.

What is the difference between a two wire transmission line and a waveguide?

Transmission Line – A two conductor structure that can support a TEM wave.
Waveguide – A one conductor structure that cannot support a TEM wave.
Q: What is a TEM wave? A: An electromagnetic wave wherein both the electric and magnetic fields are perpendicular to the direction of wave propagation.

What is the most efficient port? And the latest index reveals some shifts in the maritime landscape. There was no change at the top, with China's Yangshan Port ranked the most efficient for the second year in a row, but East and Southeast Asian ports surged ahead in 2023, taking 13 of the top 20 spots.

What are the three port types? The port numbers are divided into three ranges: the well-known ports, the registered ports, and the dynamic or private ports.

What is the difference between port 110 and port 995? Port 110 is the default POP3 port and it is not encrypted. The encrypted port for POP3 is 995 and works over TLS/SSL.

How to calculate SAR in CST? CST Microwave Studio offers whole-body average and local SAR values: Whole-body average SAR: Can be found in the SAR result file under "Total SAR". It is obtained by dividing the total power absorbed in the human body by the full body weight. It is also possible to define a sub volume by picks or by numbers.

What are the three types of antenna polarization? There are three general types of antenna polarization: linear, circular and elliptical. An antenna is linearly polarized when it radiates RF energy on a single plane, either horizontal or vertical in relation

to the Earth's surface (see Figure 1) or some angle between both.

How to plot co and cross-polarization in cst? In CST 2019 the far-field results are saved in a folder, then when is selected the cross-polarization beginning with Fairfield plot properties->Axes->Select conditions of the vector E->Ludwig 3, then the co-polar and cross-polar fields are shown in the folder as presented in the figure.

What is a good antenna efficiency? The antenna efficiency is measured in an anechoic chamber by feeding some power to the antenna feed pads and measuring the strength of the radiated electromagnetic field in the surrounding space. A good antenna, in general, radiates 50 – 60 % of the energy fed to it (-3 to -2.2dB).

What is the farfield pattern? In the field of antenna design the term radiation pattern (or antenna pattern or far-field pattern) refers to the directional (angular) dependence of the strength of the radio waves from the antenna or other source.

What are the two methods for measuring antenna efficiency? Abstract: Two methods for measuring antenna efficiency are described. The two methods, referred to as the Wheeler method and the Q method, are used to find the efficiency of electrically small multiturn loop antennas. The principal advantage of both methods is that they can be quickly and easily applied.

What are the different types of ports in CST? Types of Port Ports in CST MICROSTRIPES; now fall into one of two fundamental categories: waveguide-and-transmission-line-ports, or wire-ports. At present it is not possible to attach a port inside a lumped-component circuit.

What is waveguide to coax adapter? What are Waveguide to Coaxial Adapters? Waveguide to coaxial adapters are adapters where one end is a coaxial connector and the other end is a Waveguide flange. These can be used to transition high frequency waveguide signals to modules with a coaxial interface.

What is waveguide in satellite communication? A waveguide is a structure that guides waves by restricting the transmission of energy to one direction. Common types of waveguides include acoustic waveguides which direct sound, optical waveguides which direct light, and radio-frequency waveguides which direct electromagnetic waves other than light like radio waves.

What are waveguides used for? Metallic waveguides are indispensable in satellite communication since they are used to transmit signals of microwave to and from the satellites. These are the current high-power microwaves, and they take minimal losses since they are guided.

What is a discrete port in CST? Discrete ports are mainly used to simulate lumped element sources inside the calculation domain. These ports are a good approximation for the source in the feeding point of antennas when calculating farfields. In some cases, these ports may also be used to terminate coaxial cables or microstrip lines.

What are the three major ports? Introduction to Major Ports in India On the west coast, there are the ports of Mumbai, Kandla, Mangalore, JNPT, Mormugao, and Cochin. The ones on the east coast are the ports at Chennai, Tuticorin, Visakhapatnam, Paradip, Kolkata, and Ennore.

What are the three port types? The port numbers are divided into three ranges: the well-known ports, the registered ports, and the dynamic or private ports.

What is the difference between waveguide and coaxial cable? As waveguide is air filled there will be less loss compare to coaxial line. In waveguide, no power is lost through radiation and even dielectric loss is negligible. As the outer wall of the waveguide is metallic, it is bulky, heavy and expensive also. While coaxial line is smaller in size and lighter in the weight.

What are the advantages of waveguides over coaxial lines?

What is the purpose of the waveguide to coax transition? CommScope offers a complete selection of microwave connectivity accessories to optimize your backhaul installation and performance. Waveguide-to-coaxial cable transitions are used to connect a rectangular waveguide interface to a coaxial cable flange interface.

Why need a waveguide? They are originally used to carry radio waves and used as a transmission line mostly in microwave frequencies (1260–1625 nm) for purposes as connecting microwave transmitters and receivers to their antennas in equipment such as microwaves ovens, radar sets, satellite communications and microwave radio links.

What is the difference between a waveguide and a guided wave? The waveguide structure effectively eliminates the divergence of a guided wave, but also modifies other properties such as its wavenumber and chromatic dispersion (? waveguide dispersion). Therefore, the properties of guided waves deviate in various respects from those of, e.g., plane waves.

Is an antenna a waveguide? A waveguide antenna is a type of antenna that channels RF energy from an air medium into a waveguide, or vice versa. Once the RF energy has been captured, it is either conducted through waveguide interconnect, or picked up by a coaxial interface to later be transmitted through a coaxial assembly.

What is the disadvantage of waveguide?

Are waveguides still used today? It is a hollow metallic or dielectric structure that confines and directs the propagation of electromagnetic waves. Waveguides are used in microwave and optical communication systems to transmit and manipulate electromagnetic waves. In short, waveguides are crucial for modern communication and technology.

How do you make a waveguide? Usually, a basic waveguide can be constructed from a hollow conducting tube. If the conducting tube is rectangular in shape, then it forms a rectangular waveguide. Rectangular waveguides are extensively used in radars, couplers, isolators, and attenuators to transmit signals.

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