

pdfgiant

Discovering pdfgiant: Your Ultimate Solution for PDF Conversion and Management

pdfgiant has emerged as a leading platform dedicated to providing efficient, reliable, and user-friendly PDF solutions. Whether you're a student, professional, or business owner, mastering PDF management is essential in today's digital world. This comprehensive guide explores everything you need to know about **pdfgiant** — its features, benefits, and how it can transform your workflow.

What is pdfgiant?

An Overview of the Platform

pdfgiant is an online service specializing in PDF conversion, editing, and management tools. It is designed to simplify complex tasks associated with PDF files, such as converting files to and from PDF, editing content, compressing large documents, and securing sensitive information.

Key Features of pdfgiant

- Easy-to-use interface suitable for beginners and advanced users
- Supports multiple file formats for conversion (e.g., Word, Excel, PowerPoint, images)
- High-quality PDF output with minimal loss of formatting
- Secure file handling with encryption and password protection
- Batch processing capabilities for multiple files at once
- Cloud integration options for seamless workflow
- Fast processing speeds to save time

Core Services Offered by pdfgiant

PDF Conversion Tools

One of the primary functions of **pdfgiant** is its robust conversion suite. Users can convert various file formats into PDFs and vice versa with ease. This flexibility ensures compatibility across different platforms and devices.

1. **Word to PDF:** Easily convert DOCX or DOC files into professional PDFs.
2. **Excel to PDF:** Convert spreadsheets into shareable, non-editable PDFs.
3. **PPT to PDF:** Transform presentations into secure PDFs for distribution.
4. **Images to PDF:** Combine multiple images into a single PDF document.
5. **PDF to Word/Excel/PowerPoint:** Extract editable content from PDFs for editing or re-use.

PDF Editing and Annotation

Beyond conversion, **pdfgiant** provides editing tools that allow users to modify PDF content directly. This includes adding or removing text, inserting images, and annotating documents for review purposes.

PDF Compression and Optimization

Large PDF files can be cumbersome to share or store. **pdfgiant** offers compression tools that reduce file size without sacrificing quality, making document sharing faster and more efficient.

Security and Privacy Features

Protecting sensitive information is crucial. **pdfgiant** includes encryption options, password protection, and permissions management to keep your documents secure during storage and sharing.

Benefits of Using pdfgiant

User-Friendly Interface

The platform boasts an intuitive design that caters to users of all skill levels. Whether you're a tech novice or an experienced professional, navigating **pdfgiant** is straightforward and efficient.

Speed and Efficiency

Time-sensitive tasks are handled swiftly, thanks to high-speed servers and optimized processing algorithms. Batch processing allows multiple files to be handled simultaneously, further saving time.

Cost-Effective Solutions

Compared to traditional desktop software or expensive subscriptions, **pdfgiant** offers affordable plans and pay-as-you-go options, making it accessible for individual users and enterprises alike.

Compatibility and Accessibility

The platform works across various devices and operating systems, including Windows, Mac, Android, and iOS. Its cloud-based nature means you can access your files from anywhere with an internet connection.

How to Use pdfgiant: A Step-by-Step Guide

Getting Started with pdfgiant

1. Create a free account or log in if you already have one.
2. Choose the desired tool (e.g., convert, edit, compress).
3. Upload your files directly from your device or cloud storage services like Google Drive or Dropbox.
4. Configure any necessary settings (e.g., password protection, output format).
5. Start the processing and wait for the task to complete.
6. Download your processed PDF or original files post-processing.

Tips for Maximizing Efficiency

- Use batch processing for multiple files to save time.
- Leverage cloud storage integration for seamless workflows.
- Utilize security features when handling confidential documents.

- Regularly update your account for access to new features and improvements.

Comparing pdfgiant with Other PDF Tools

Advantages Over Competitors

- All-in-one platform: Conversion, editing, compression, and security
- Affordable pricing plans suitable for individuals and businesses
- High-speed processing and reliable performance
- Support for batch processing to handle multiple files efficiently
- Cloud-based accessibility from any device

Potential Limitations

- Some advanced features may require a subscription
- Dependent on internet connection for online processing
- Limited offline capabilities compared to desktop software

Real-Life Use Cases for pdfgiant

Students and Educators

- Converting lecture notes and assignments into PDFs
- Compressing large research documents for email sharing
- Annotating PDFs for collaborative review

Business Professionals

- Creating professional reports from Excel or Word files
- Securing sensitive documents with encryption
- Converting presentation slides into PDFs for client meetings

Legal and Medical Fields

- Digitizing paper documents into searchable PDFs
- Ensuring confidentiality with password protection
- Compressing large files for easier storage and transfer

Choosing the Right Plan for Your Needs

Free Plan

Ideal for occasional users, offering limited daily conversions and basic features.

Premium Plans

- Unlimited conversions and access to advanced tools
- Priority processing speeds
- Additional security features
- Access to batch processing and cloud integrations

Enterprise Solutions

Designed for organizations requiring bulk processing, custom integrations, and dedicated support.

Conclusion: Why pdfgiant Stands Out

pdfgiant is more than just a PDF converter — it's a comprehensive platform that simplifies document management for users across various domains. Its combination of user-friendly design, powerful features, affordability, and cloud accessibility makes it an invaluable tool for anyone looking to streamline their PDF workflows. Whether you're managing personal files or handling high-volume business documents, **pdfgiant** offers the tools you need to work smarter, faster, and more securely.

Start Using pdfgiant Today

Getting started with **pdfgiant** is quick and easy. Sign up for a free account, explore its features, and experience how it can revolutionize your document management process. Embrace the future of PDFs with a platform built for efficiency, security, and versatility.

Frequently Asked Questions

What is PDFGiant and how does it work?

PDFGiant is an online platform that allows users to convert, compress, and manage PDF files easily through a user-friendly interface, supporting various file operations without requiring software installation.

Is PDFGiant free to use?

Yes, PDFGiant offers free basic features for converting and compressing PDFs, with optional premium plans that provide additional tools and higher usage limits.

What types of file conversions can I perform with PDFGiant?

PDFGiant supports converting PDFs to formats like Word, Excel, PowerPoint, images (JPEG, PNG), and more, as well as converting other formats into PDF.

Can I compress large PDF files with PDFGiant?

Absolutely, PDFGiant provides compression tools that reduce PDF file sizes while maintaining quality, making it easier to share or store large documents.

Is my data secure when using PDFGiant?

Yes, PDFGiant prioritizes user privacy and data security by implementing encryption and deleting files from their servers after processing to ensure confidentiality.

Does PDFGiant support batch processing of PDFs?

Yes, PDFGiant offers batch processing features that allow users to convert or compress multiple files simultaneously, saving time and effort.

Are there any limitations on the file size or number of conversions with PDFGiant?

Free accounts may have limitations on file size and daily conversions, but premium plans offer higher or unlimited limits depending on the subscription.

Is PDFGiant available on mobile devices?

Yes, PDFGiant's platform is optimized for mobile browsers, allowing users to convert and manage PDFs seamlessly from smartphones and tablets.

How does PDFGiant compare to other PDF tools?

PDFGiant is known for its simplicity, speed, and a wide range of supported formats, making it a popular choice for quick and easy PDF conversions compared to more complex software.

Can I use PDFGiant for professional or business purposes?

Yes, PDFGiant's features are suitable for professional and business use, especially with premium plans that offer bulk processing, higher limits, and dedicated support.

Additional Resources

pdfgiant is rapidly emerging as a prominent tool in the realm of PDF management, offering users a comprehensive suite of features designed to streamline document handling, editing, and conversion. As digital documentation becomes increasingly integral to both professional and personal workflows, tools like pdfgiant are gaining attention for their ability to simplify complex tasks and enhance productivity. This review explores the various facets of pdfgiant, analyzing its features, usability, performance, and overall value to determine whether it stands out in a crowded marketplace.

Overview of pdfgiant

pdfgiant positions itself as an all-in-one PDF solution aimed at individuals, students, and businesses alike. Its core mission is to provide users with a reliable platform to convert, edit, merge, split, compress, and secure PDF files efficiently. Unlike many competitors that focus solely on specific features, pdfgiant offers a versatile environment designed to meet diverse needs, whether you're preparing a professional report, organizing academic materials, or managing large document archives.

The platform's user interface is designed to be intuitive, even for those unfamiliar with advanced PDF tools. It is web-based, eliminating the need for software installation, which enhances accessibility and

ease of use across multiple devices and operating systems. As a cloud-integrated service, pdfgiant also emphasizes collaboration and sharing, making it suitable for team environments.

Key Features of pdfgiant

1. PDF Conversion

One of pdfgiant's standout features is its robust conversion capabilities. Users can convert PDFs to various formats such as Word, Excel, PowerPoint, JPG, and vice versa. This flexibility is essential for editing or extracting data from documents.

Features:

- High-quality conversions that preserve formatting
- Batch processing for multiple files simultaneously
- Support for scanned PDFs via OCR (Optical Character Recognition)

Pros:

- Accurate conversion results
- OCR enhances usability with scanned documents
- Time-saving batch processing

Cons:

- OCR accuracy can vary depending on document quality
- Some complex layouts may require manual adjustments

2. PDF Editing and Annotation

pdfgiant provides straightforward tools for editing PDFs directly. Users can add or delete text, insert images, draw shapes, highlight, underline, or add comments to facilitate review processes.

Features:

- Text editing directly within PDFs
- Annotate with sticky notes, highlights, and underlines
- Insert, delete, rotate images and pages

Pros:

- User-friendly editing interface
- Supports collaborative annotations
- No need for exporting to other formats for minor edits

Cons:

- Advanced editing (like reflowing text) is limited
- Not as feature-rich as dedicated desktop editors

3. Merging and Splitting PDFs

For organizing large collections of documents, pdfgiant simplifies merging multiple PDFs into one or splitting a single PDF into parts. This is particularly useful for consolidating reports or extracting specific sections.

Features:

- Drag-and-drop interface for easy file management
- Sequential rearrangement of pages
- Custom page range splitting

Pros:

- Quick and efficient process
- Intuitive interface
- Supports large files

Cons:

- Limited in customizing page ranges for splitting
- No advanced options like watermarking during merge

4. Compression and Optimization

Handling large PDF files can be challenging, especially for sharing or storage purposes. pdfgiant offers compression tools that reduce file size while maintaining acceptable quality.

Features:

- Adjustable compression settings
- Batch compression for multiple files
- Preview quality before compression

Pros:

- Significantly reduces file sizes
- Maintains readability and clarity
- Easy to use

Cons:

- Excessive compression may affect quality
- Not suitable for highly detailed images

5. Security and Electronic Signatures

Security features are vital in professional environments. pdfgiant facilitates password protection, encryption, and digital signing of PDFs.

Features:

- Add password protection

- Apply permissions for editing or printing
- Integrate electronic signatures

Pros:

- Ensures document confidentiality
- Supports legally binding signatures
- Easy to implement security measures

Cons:

- Limited options for advanced encryption
- Digital signatures may require additional setup

User Experience and Interface

pdfgiant's interface is designed with clarity and simplicity in mind. The layout is clean, with logical categorization of tools that minimize the learning curve. Navigation is smooth, with drag-and-drop functionality for uploading files, and progress indicators that keep users informed during processing.

The platform is web-based, which means no software download is necessary. This makes it accessible from any device with internet access, including desktops, tablets, and smartphones. The responsiveness of the interface ensures a consistent experience across devices.

However, some users have noted that while the platform is generally intuitive, certain advanced features—like OCR customization or batch processing—could benefit from more detailed tutorials or onboarding guides. Customer support is accessible via chat and email, but response times may vary during peak hours.

Performance and Reliability

In terms of performance, pdfgiant demonstrates solid speed and stability. Large files are processed efficiently, with minimal lag. The OCR feature, while effective, may take longer with high-volume documents or poor-quality scans. The cloud-based architecture ensures availability and scalability, but users should ensure a stable internet connection for optimal performance.

Reliability is generally high, with successful processing in most cases. Occasional glitches, such as failed uploads or timeouts, have been reported but are not widespread. The platform's servers are regularly maintained, and updates are rolled out to enhance stability.

Pricing and Plans

pdfgiant offers flexible pricing models to cater to different user needs. There is a free tier that provides limited access to core features, suitable for casual users or those testing the platform. Paid plans unlock additional functionalities and higher usage limits.

Pricing Overview:

- Free Plan: Limited conversions, basic editing, and watermarking
- Monthly Subscription: Access to all features with unlimited usage
- Enterprise Solutions: Customized packages for organizations

Pros:

- Competitive pricing for premium plans
- No hidden fees
- Free trials available

Cons:

- Some advanced features locked behind higher tiers
- Subscription-based model may not suit infrequent users

Pros and Cons Summary

Pros:

- All-in-one platform covering most PDF needs
- User-friendly interface suitable for beginners
- High-quality conversion and editing tools
- Cloud-based, accessible from any device
- Robust security features
- Batch processing capabilities

Cons:

- Advanced editing features are somewhat limited
- OCR accuracy depends on document quality
- Limited customization options in some tools
- Reliance on internet connection for optimal performance
- Pricing may be a barrier for infrequent users

Final Verdict

pdfgiant stands out as a versatile and accessible PDF management tool suitable for a broad audience. Its comprehensive feature set, combined with an intuitive interface, makes it a strong choice for users seeking an all-in-one solution without the need for complex software installations. While it may not replace specialized editing software for highly intricate tasks, it excels in providing quick, reliable, and secure PDF handling.

For students, educators, small businesses, and professionals who require a dependable platform for everyday PDF tasks, pdfgiant offers excellent value. Its cloud-based nature ensures flexibility and collaboration capabilities, essential in today's remote and hybrid work environments.

However, users requiring advanced editing capabilities or extensive customization might find some limitations. Additionally, those dealing with highly sensitive documents should evaluate the security features in detail before fully relying on the platform.

In conclusion, pdfgiant is a highly competent tool that balances functionality with ease of use, making it a strong contender in the PDF software landscape. Its ongoing development and user-focused features suggest it will continue to evolve, providing even greater value in the future. Whether for casual use or professional workflows, pdfgiant is worth considering as your go-to PDF solution.

Pdfgiant

pdfgiant: The Price of Gold John Sandlos, Arn Keeling, 2025-10-16 Fifty years of gold mining at Yellowknife in the Northwest Territories spurred northern settlement and produced millions of dollars in profits. But mineral processing also had catastrophic environmental effects and left a troubled legacy. When two mining companies in Yellowknife began processing gold ore in the 1940s, they did so with little or no pollution controls. Giant Mine spewed thousands of kilograms of arsenic trioxide from its roaster stack into the environment, causing illness and death among people and animals, especially in the adjacent Yellowknives Dene community. Even after the companies installed controls, arsenic trioxide continued to enter the atmosphere and waterways. Eventually Giant Mine, the biggest polluter, would deposit the arsenic dust beneath the mine, leaving 237,000 tonnes of highly toxic material buried underground. For decades, the mining companies and the federal government hid the worst effects of the pollution, doubted their own studies, and resisted calls for action. Yet the Yellowknives Dene fought back with the support of labour unions and environmental groups, questioning the safety of the air and water in their community and the massive toxic deposit underground. The Price of Gold traces the troubling history of one of Canada's most contaminated sites but also the inspiring story of Indigenous, labour, and environmental activists who resisted the ongoing poisoning of their communities.

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seguimiento solar seguidor solar automático de seguimiento solar Gerro Prinsloo, Robert Dobson, 2015-11-01 Automatic Solar Tracking Sun Tracking : This book details Automatic Solar-Tracking, Sun-Tracking-Systems, Solar-Trackers and Sun Tracker Systems. An intelligent automatic solar tracker is a device that orients a payload toward the sun. Such programmable computer based solar tracking device includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conic, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously (seguimiento solar y automatización, automatización seguidor solar, tracking solar e automação, automação seguidor solar, inseguimento solare, inseguitore solare, energia termica, sole seguito, posizionatore motorizzato) In harnessing power from the sun through a solar tracker or practical solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. A high precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system. The content of the book is also applicable to communication antenna satellite tracking and moon tracking algorithm source code for which links to free download links are provided. From sun tracing software perspective, the sonnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun's daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. The book also describes the use of satellite tracking software and mechanisms in solar tracking applications. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout the day. Using solar equations in an electronic circuit for automatic solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, journal articles and internet websites. In terms of solar hobbies, scholars, students and Hobbyist's looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis sun-tracking systems. This booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller. By directing the solar collector directly into the sun, a solar harvesting means or device can harness sunlight or thermal heat. This is achieved with the help of sun angle formulas, solar angle formulas or solar tracking procedures for the calculation of sun's position in the sky. Automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky. In using the longitude, latitude GPS coordinates of the solar tracker location, these sun tracking software tools supports precision solar tracking by determining the solar altitude-azimuth coordinates for the sun trajectory in altitude-azimuth tracking at the tracker location, using certain sun angle formulas in sun vector calculations. Instead of follow the sun software, a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically. Such optical feedback devices are often used in solar panel tracking systems and dish tracking systems. Dynamic sun tracing is also used in solar surveying, DNI analyser and sun surveying systems that build solar infographics maps with solar

radiance, irradiance and DNI models for GIS (geographical information system). In this way geospatial methods on solar/environment interaction makes use of geospatial technologies (GIS, Remote Sensing, and Cartography). Climatic data and weather station or weather center data, as well as queries from sky servers and solar resource database systems (i.e. on DB2, Sybase, Oracle, SQL, MySQL) may also be associated with solar GIS maps. In such solar resource modelling systems, a pyranometer or solarimeter is normally used in addition to measure direct and indirect, scattered, dispersed, reflective radiation for a particular geographical location. Sunlight analysis is important in flash photography where photographic lighting are important for photographers. GIS systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis, solar flux calculations, optical modelling or to perform weather modelling. Such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity. The purpose of this booklet is to assist developers to track and trace suitable source-code and solar tracking algorithms for their application, whether a hobbyist, scientist, technician or engineer. Many open-source sun following and tracking algorithms and source-code for solar tracking programs and modules are freely available to download on the internet today. Certain proprietary solar tracker kits and solar tracking controllers include a software development kit SDK for its application programming interface API attributes (Pebble). Widget libraries, widget toolkits, GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user interface (GUI) for your solar tracking or solar power monitoring program. The solar library used by solar position calculators, solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into Micro-controllers, Programmable Logic Controllers PLC, programmable gate arrays, Arduino processor or PIC processor. PC based solar tracking is also high in demand using C++, Visual Basic VB, as well as MS Windows, Linux and Apple Mac based operating systems for sun path tables on Matlab, Excel. Some books and internet webpages use other terms, such as: sun angle calculator, sun position calculator or solar angle calculator. As said, such software code calculate the solar azimuth angle, solar altitude angle, solar elevation angle or the solar Zenith angle (Zenith solar angle is simply referenced from vertical plane, the mirror of the elevation angle measured from the horizontal or ground plane level). Similar software code is also used in solar calculator apps or the solar power calculator apps for IOS and Android smartphone devices. Most of these smartphone solar mobile apps show the sun path and sun-angles for any location and date over a 24 hour period. Some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone's specific GPS location. In the computer programming and digital signal processing (DSP) environment, (free/open source) program code are available for VB, .Net, Delphi, Python, C, C+, C++, PHP, Swift, ADM, F, Flash, Basic, QBasic, GBasic, KBasic, SIMPL language, Squirrel, Solaris, Assembly language on operating systems such as MS Windows, Apple Mac, DOS or Linux OS. Software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as Matlab (Mathworks), Simulink models, Java applets, TRNSYS simulations, Scada system apps, Labview module, Beckhoff TwinCAT (Visual Studio), Siemens SPA, mobile and iphone apps, Android or iOS tablet apps, and so forth. At the same time, PLC software code for a range of sun tracking automation technology can follow the profile of sun in sky for Siemens, HP, Panasonic, ABB, Allan Bradley, OMRON, SEW, Festo, Beckhoff, Rockwell, Schneider, Endress Hauser, Fudji electric. Honeywell, Fuchs, Yokonawa, or Muthibishi platforms. Sun path projection software are also available for a range of modular IPC embedded PC motherboards, Industrial PC, PLC (Programmable Logic Controller) and PAC (Programmable Automation Controller) such as the Siemens S7-1200 or Siemens Logo, Beckhoff IPC or CX series, OMRON PLC, Ercam PLC, AC500plc ABB, National Instruments NI PXI or NI cRIO, PIC processor, Intel 8051/8085, IBM (Cell, Power, Brain or Truenorth series), FPGA (Xilinx Altera Nios), Intel, Xeon, Atmel megaAVR, MPU, Maple, Teensy, MSP, XMOS, Xbee, ARM, Raspberry Pi, Eagle, Arduino or Arduino AtMega microcontroller,

with servo motor, stepper motor, direct current DC pulse width modulation PWM (current driver) or alternating current AC SPS or IPC variable frequency drives VFD motor drives (also termed adjustable-frequency drive, variable-speed drive, AC drive, micro drive or inverter drive) for electrical, mechatronic, pneumatic, or hydraulic solar tracking actuators. The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder, shaft encoder, precision encoder, optical encoder, magnetic encoder, direction encoder, rotational encoder, chip encoder, tilt sensor, inclination sensor, or pitch sensor. Note that the tracker's elevation or zenith axis angle may be measured using an altitude angle-, declination angle-, inclination angle-, pitch angle-, or vertical angle-, zenith angle- sensor or inclinometer. Similarly the tracker's azimuth axis angle may be measured with an azimuth angle-, horizontal angle-, or roll angle-sensor. Chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to calculate displacement. Other options include the use of thermal imaging systems such as a Fluke thermal imager, or robotic or vision based solar tracker systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised rural, island, isolated, or autonomous off-grid power installations, remote control, monitoring, data acquisition, digital datalogging and online measurement and verification equipment becomes crucial. It assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web-based feedback in terms of CO₂ and clean development mechanism (CDM) reporting. A power quality analyser for diagnostics through internet, WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance, where quick diagnostic analysis is required to detect and prevent power quality issues. Solar tracker applications cover a wide spectrum of solar applications and solar assisted application, including concentrated solar power generation, solar desalination, solar water purification, solar steam generation, solar electricity generation, solar industrial process heat, solar thermal heat storage, solar food dryers, solar water pumping, hydrogen production from methane or producing hydrogen and oxygen from water (HHO) through electrolysis. Many patented or non-patented solar apparatus include tracking in solar apparatus for solar electric generator, solar desalinator, solar steam engine, solar ice maker, solar water purifier, solar cooling, solar refrigeration, USB solar charger, solar phone charging, portable solar charging tracker, solar coffee brewing, solar cooking or solar drying means. Your project may be the next breakthrough or patent, but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance, solar generator, solar tracker robot, solar freezer, solar cooker, solar drier, solar pump, solar freezer, or solar dryer project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power kit, solar hobby kit, solar steam generator, solar hot water system, solar ice maker, solar desalinator, hobbyist solar panels, hobby robot, or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming, this publication may help accelerate the development of your solar tracking innovation. Lately, solar polygeneration, solar trigeneration (solar triple generation), and solar quad generation (adding delivery of steam, liquid/gaseous fuel, or capture food-grade CO₂) systems have need for automatic solar tracking. These systems are known for significant efficiency increases in energy yield as a result of the integration and re-use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and transported in kit-form and operate on a plug-and play basis. Typical hybrid solar power systems include compact or packaged solar micro combined heat and power (CHP or mCHP) or solar micro combined, cooling, heating and power (CCHP, CHPC, mCCHP, or mCHPC) systems used in distributed power generation. These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off-grid rural, island or isolated microgrid, minigrid and distributed power renewable energy systems. Solar tracking algorithms are also used in modelling of trigeneration systems using Matlab Simulink (Modelica or TRNSYS) platform as well as in automation and control of renewable energy systems through intelligent parsing, multi-objective,

adaptive learning control and control optimization strategies. Solar tracking algorithms also find application in developing solar models for country or location specific solar studies, for example in terms of measuring or analysis of the fluctuations of the solar radiation (i.e. direct and diffuse radiation) in a particular area. Solar DNI, solar irradiance and atmospheric information and models can thus be integrated into a solar map, solar atlas or geographical information systems (GIS). Such models allow for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic or CSP systems on simulation and synthesis platforms such as Matlab and Simulink or in linear or multi-objective optimization algorithm platforms such as COMPOSE, EnergyPLAN or DER-CAM. A dual-axis solar tracker and single-axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish, solar panel array, heliostat array, PV panel, solar antenna or infrared solar antenna. A self-tracking solar concentrator performs automatic solar tracking by computing the solar vector. Solar position algorithms (TwinCAT, SPA, or PSA Algorithms) use an astronomical algorithm to calculate the position of the sun. It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day. Like an optical solar telescope, the solar position algorithm pin-points the solar reflector at the sun and locks onto the sun's position to track the sun across the sky as the sun progresses throughout the day. Optical sensors such as photodiodes, light-dependent resistors (LDR) or photoresistors are used as optical accuracy feedback devices. Lately we also included a section in the book (with links to microprocessor code) on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's position. In a solar mems sun-sensor device, incident sunlight enters the sun sensor through a small pin-hole in a mask plate where light is exposed to a silicon substrate. In a web-camera or camera image processing sun tracking and sun following means, object tracking software performs multi object tracking or moving object tracking methods. In an solar object tracking technique, image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame, while sun-localization is performed with an edge detection algorithm to determine the solar vector coordinates. An automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems. Automatic on-axis solar tracking in a PV solar tracking system can be dual-axis sun tracking or single-axis sun solar tracking. It is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and ensures increased power output, even in a single axis solar tracking configuration. Other applications such as robotic solar tracker or robotic solar tracking system uses robotics with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system. Automatic positioning systems in solar tracking designs are also used in other free energy generators, such as concentrated solar thermal power CSP and dish Stirling systems. The sun tracking device in a solar collector in a solar concentrator or solar collector Such a performs on-axis solar tracking, a dual axis solar tracker assists to harness energy from the sun through an optical solar collector, which can be a parabolic mirror, parabolic reflector, Fresnel lens or mirror array/matrix. A parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean. In steering the dish to face the sun, the power dish actuator and actuation means in a parabolic dish system optically focusses the sun's energy on the focal point of a parabolic dish or solar concentrating means. A Stirling engine, solar heat pipe, thermosyphon, solar phase change material PCM receiver, or a fibre optic sunlight receiver means is located at the focal point of the solar concentrator. The dish Stirling engine configuration is referred to as a dish Stirling system or Stirling power

generation system. Hybrid solar power systems (used in combination with biogas, biofuel, petrol, ethanol, diesel, natural gas or PNG) use a combination of power sources to harness and store solar energy in a storage medium. Any multitude of energy sources can be combined through the use of controllers and the energy stored in batteries, phase change material, thermal heat storage, and in cogeneration form converted to the required power using thermodynamic cycles (organic Rankin, Brayton cycle, micro turbine, Stirling) with an inverter and charge controller.

pdfgiant: The Wasp That Brainwashed the Caterpillar Matt Simon, 2016-10-25 "A bizarre collection of evolution tales . . . the weirder, the better." —Entertainment Weekly A fascinating exploration of the awe-inspiring, unsettling ingenuity of evolution from Wired writer Matt Simon, author of *Plight of the Living Dead* (coming soon from Penguin Books) On a barren seafloor, the pearlfish swims into the safety of a sea cucumber's anus. To find a meal, the female bolas spider releases pheromones that mimic a female moth, luring male moths into her sticky lasso web. The *Glyptapanteles* wasp injects a caterpillar with her young, which feed on the victim, erupt out of it, then mind-control the poor (and somehow still living) schmuck into protecting them from predators. These are among the curious critters of *The Wasp That Brainwashed the Caterpillar*, a jaunt through evolution's most unbelievable, most ingenious solutions to the problems of everyday life, from trying to get laid to finding food. Join Wired science writer Matt Simon as he introduces you to the creatures that have it figured out, the ones that joust with their mustaches or choke sharks to death with snot, all in a wild struggle to survive and, of course, find true love. Winner of the American Library Association's Alex Award

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pdfgiant: Practical Solar Tracking Automatic Solar Tracking Sun Tracking Автоматическое удержание Солнечная слежения BC Gerro Prinsloo, Robert Dobson, 2015-11-01 This book details Practical Solar Energy Harvesting, Automatic Solar-Tracking, Sun-Tracking-Systems, Solar-Trackers and Sun Tracker Systems using motorized automatic positioning concepts and control principles. An intelligent automatic solar tracker is a device that orients a payload toward the sun. Such programmable computer based solar tracking device includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conic, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously. In general, the book may benefit solar research and solar energy applications in countries such as Africa, Mediterranean, Italy, Spain, Greece, USA, Mexico, South America, Brazilia, Argentina, Chili, India, Malaysia, Middle East, UAE, Russia, Japan and China. This book on practical automatic Solar-Tracking Sun-Tracking is in .PDF format and can easily be converted to the .EPUB .MOBI .AZW .ePub .FB2 .LIT .LRF .MOBI .PDB .PDF .TCR formats for smartphones and Kindle by using the ebook.online-convert.com facility. The content of the book is also applicable to communication antenna satellite tracking and moon tracking algorithm source code for which links to free download links are provided. In harnessing power from the sun through a solar tracker or practical solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. A high precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system. From sun tracing software perspective, the sonnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun's daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout the day. Using solar equations in an electronic circuit for automatic solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, journal articles and internet websites. In terms of solar hobbies, scholars, students and Hobbyist's looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for

their on-axis sun-tracking systems. This booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller. By directing the solar collector directly into the sun, a solar harvesting means or device can harness sunlight or thermal heat. This is achieved with the help of sun angle formulas, solar angle formulas or solar tracking procedures for the calculation of sun's position in the sky. Automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky. In using the longitude, latitude GPS coordinates of the solar tracker location, these sun tracking software tools supports precision solar tracking by determining the solar altitude-azimuth coordinates for the sun trajectory in altitude-azimuth tracking at the tracker location, using certain sun angle formulas in sun vector calculations. Instead of follow the sun software, a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically. Such optical feedback devices are often used in solar panel tracking systems and dish tracking systems. Dynamic sun tracing is also used in solar surveying, DNI analyser and sun surveying systems that build solar infographics maps with solar radiance, irradiance and DNI models for GIS (geographical information system). In this way geospatial methods on solar/environment interaction makes use use of geospatial technologies (GIS, Remote Sensing, and Cartography). Climatic data and weather station or weather center data, as well as queries from sky servers and solar resource database systems (i.e. on DB2, Sybase, Oracle, SQL, MySQL) may also be associated with solar GIS maps. In such solar resource modelling systems, a pyranometer or solarimeter is normally used in addition to measure direct and indirect, scattered, dispersed, reflective radiation for a particular geographical location. Sunlight analysis is important in flash photography where photographic lighting are important for photographers. GIS systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis, solar flux calculations, optical modelling or to perform weather modelling. Such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity. The purpose of this booklet is to assist developers to track and trace suitable source-code and solar tracking algorithms for their application, whether a hobbyist, scientist, technician or engineer. Many open-source sun following and tracking algorithms and source-code for solar tracking programs and modules are freely available to download on the internet today. Certain proprietary solar tracker kits and solar tracking controllers include a software development kit SDK for its application programming interface API attributes (Pebble). Widget libraries, widget toolkits, GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user interface (GUI) for your solar tracking or solar power monitoring program. The solar library used by solar position calculators, solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into Micro-controllers, Programmable Logic Controllers PLC, programmable gate arrays, Arduino processor or PIC processor. PC based solar tracking is also high in demand using C++, Visual Basic VB, as well as MS Windows, Linux and Apple Mac based operating systems for sun path tables on Matlab, Excel. Some books and internet webpages use other terms, such as: sun angle calculator, sun position calculator or solar angle calculator. As said, such software code calculate the solar azimuth angle, solar altitude angle, solar elevation angle or the solar Zenith angle (Zenith solar angle is simply referenced from vertical plane, the mirror of the elevation angle measured from the horizontal or ground plane level). Similar software code is also used in solar calculator apps or the solar power calculator apps for IOS and Android smartphone devices. Most of these smartphone solar mobile apps show the sun path and sun-angles for any location and date over a 24 hour period. Some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone's specific GPS location. In the computer programming and digital signal processing (DSP) environment, (free/open source) program code are available for VB, .Net, Delphi, Python, C, C+, C++, PHP, Swift, ADM, F,

Flash, Basic, QBasic, GBasic, KBasic, SIMPL language, Squirrel, Solaris, Assembly language on operating systems such as MS Windows, Apple Mac, DOS or Linux OS. Software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as Matlab (Mathworks), Simulink models, Java applets, TRNSYS simulations, Scada system apps, Labview module, Beckhoff TwinCAT (Visual Studio), Siemens SPA, mobile and iphone apps, Android or iOS tablet apps, and so forth. At the same time, PLC software code for a range of sun tracking automation technology can follow the profile of sun in sky for Siemens, HP, Panasonic, ABB, Allan Bradley, OMRON, SEW, Festo, Beckhoff, Rockwell, Schneider, Endress Hauser, Fudji electric. Honeywell, Fuchs, Yokonawa, or Muthibishi platforms. Sun path projection software are also available for a range of modular IPC embedded PC motherboards, Industrial PC, PLC (Programmable Logic Controller) and PAC (Programmable Automation Controller) such as the Siemens S7-1200 or Siemens Logo, Beckhoff IPC or CX series, OMRON PLC, Ercam PLC, AC500plc ABB, National Instruments NI PXI or NI cRIO, PIC processor, Intel 8051/8085, IBM (Cell, Power, Brain or Truenorth series), FPGA (Xilinx Altera Nios), Intel, Xeon, Atmel megaAVR, MPU, Maple, Teensy, MSP, XMOS, Xbee, ARM, Raspberry Pi, Eagle, Arduino or Arduino AtMega microcontroller, with servo motor, stepper motor, direct current DC pulse width modulation PWM (current driver) or alternating current AC SPS or IPC variable frequency drives VFD motor drives (also termed adjustable-frequency drive, variable-speed drive, AC drive, micro drive or inverter drive) for electrical, mechatronic, pneumatic, or hydraulic solar tracking actuators. The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder, shaft encoder, precision encoder, optical encoder, magnetic encoder, direction encoder, rotational encoder, chip encoder, tilt sensor, inclination sensor, or pitch sensor. Note that the tracker's elevation or zenith axis angle may measured using an altitude angle-, declination angle-, inclination angle-, pitch angle-, or vertical angle-, zenith angle- sensor or inclinometer. Similarly the tracker's azimuth axis angle be measured with a azimuth angle-, horizontal angle-, or roll angle-sensor. Chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to calculate displacement. Other options include the use of thermal imaging systems such as a Fluke thermal imager, or robotic or vision based solar tracker systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised rural, island, isolated, or autonomous off-grid power installations, remote control, monitoring, data acquisition, digital datalogging and online measurement and verification equipment becomes crucial. It assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web-based feedback in terms of CO₂ and clean development mechanism (CDM) reporting. A power quality analyser for diagnostics through internet, WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance, where quick diagnostic analysis is required to detect and prevent power quality issues. Solar tracker applications cover a wide spectrum of solar applications and solar assisted application, including concentrated solar power generation, solar desalination, solar water purification, solar steam generation, solar electricity generation, solar industrial process heat, solar thermal heat storage, solar food dryers, solar water pumping, hydrogen production from methane or producing hydrogen and oxygen from water (HHO) through electrolysis. Many patented or non-patented solar apparatus include tracking in solar apparatus for solar electric generator, solar desalinator, solar steam engine, solar ice maker, solar water purifier, solar cooling, solar refrigeration, USB solar charger, solar phone charging, portable solar charging tracker, solar coffee brewing, solar cooking or solar dying means. Your project may be the next breakthrough or patent, but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance, solar generator, solar tracker robot, solar freezer, solar cooker, solar drier, solar pump, solar freezer, or solar dryer project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power kit, solar hobby kit, solar steam generator, solar hot water system, solar ice maker, solar desalinator, hobbyist solar panels,

hobby robot, or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming, this publication may help accelerate the development of your solar tracking innovation. Lately, solar polygeneration, solar trigeneration (solar triple generation), and solar quad generation (adding delivery of steam, liquid/gaseous fuel, or capture food-grade CO₂) systems have need for automatic solar tracking. These systems are known for significant efficiency increases in energy yield as a result of the integration and re-use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and transported in kit-form and operate on a plug-and play basis. Typical hybrid solar power systems include compact or packaged solar micro combined heat and power (CHP or mCHP) or solar micro combined, cooling, heating and power (CCHP, CHPC, mCCHP, or mCHPC) systems used in distributed power generation. These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off-grid rural, island or isolated microgrid, minigrid and distributed power renewable energy systems. Solar tracking algorithms are also used in modelling of trigeneration systems using Matlab Simulink (Modelica or TRNSYS) platform as well as in automation and control of renewable energy systems through intelligent parsing, multi-objective, adaptive learning control and control optimization strategies. Solar tracking algorithms also find application in developing solar models for country or location specific solar studies, for example in terms of measuring or analysis of the fluctuations of the solar radiation (i.e. direct and diffuse radiation) in a particular area. Solar DNI, solar irradiance and atmospheric information and models can thus be integrated into a solar map, solar atlas or geographical information systems (GIS). Such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic or CSP systems on simulation and synthesis platforms such as Matlab and Simulink or in linear or multi-objective optimization algorithm platforms such as COMPOSE, EnergyPLAN or DER-CAM. A dual-axis solar tracker and single-axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish, solar panel array, heliostat array, PV panel, solar antenna or infrared solar nantenna. A self-tracking solar concentrator performs automatic solar tracking by computing the solar vector. Solar position algorithms (TwinCAT, SPA, or PSA Algorithms) use an astronomical algorithm to calculate the position of the sun. It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day. Like an optical solar telescope, the solar position algorithm pin-points the solar reflector at the sun and locks onto the sun's position to track the sun across the sky as the sun progresses throughout the day. Optical sensors such as photodiodes, light-dependant-resistors (LDR) or photoresistors are used as optical accuracy feedback devices. Lately we also included a section in the book (with links to microprocessor code) on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's position. In a solar mems sun-sensor device, incident sunlight enters the sun sensor through a small pin-hole in a mask plate where light is exposed to a silicon substrate. In a web-camera or camera image processing sun tracking and sun following means, object tracking software performs multi object tracking or moving object tracking methods. In an solar object tracking technique, image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame, while sun-localization is performed with an edge detection algorithm to determine the solar vector coordinates. An automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems. Automatic on-axis solar tracking in a PV solar tracking system can be dual-axis sun tracking or single-axis sun solar tracking. It is known that a motorized positioning

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¿Quién era Óscar Uriel García? El médico que murió tras la 1 day ago El joven médico urólogo Óscar Uriel García falleció tras la explosión de una pipa de gas en Iztapalapa, elevando a 31 el número de víctimas; así lo despiden

Óscar Uriel García, médico ISSSTE, muere tras explosión en 22 hours ago Doctor Óscar Uriel García, la víctima mortal 31 de la explosión en Iztapalapa La Sedesa CdMx informó el pasado 27 de septiembre la muerte del doctor Óscar Uriel García

Confirman muerte del doctor Óscar Uriel y asciende a 31 la cifra de 2 days ago El número de víctimas mortales por la explosión en Puente la Concordia en el oriente de la Ciudad de México aumentó a 31 tras confirmarse el fallecimiento de Oscar Uriel

Muere Oscar Uriel García por accidente de la pipa en Iztapalapa, 2 days ago Muere Oscar Uriel García por accidente de la pipa en Iztapalapa, sigue creciendo el número de fallecidos El ISSSTE lamentó la muerte del joven de 31 años, quien egresó del

Fallece el médico Óscar Uriel García Rivera tras explosión en Puente 21 hours ago El médico Óscar Uriel García Rivera murió tras la explosión en Puente La Concordia y ya hubo reacciones del ISSSTE y la Sociedad Mexicana de Urología, así como la

Muere el doctor Oscar Uriel y sube a 31 cifra de muertos por 3 days ago La noche de este sábado 26 de septiembre la cifra de muertos por la explosión en Puente La Concordia subió a 31 con el fallecimiento de Oscar Uriel García Rivera. De acuerdo

Cifra de víctimas fatales aumenta a 31 por explosión de pipa de gas 2 days ago Oscar Uriel García Rivera, urólogo de 31 años, sucumbió a sus heridas este sábado 27 de septiembre, mientras 13 personas permanecen hospitalizadas y 40 han sido dadas de

Óscar Uriel García fallece por explosión en Iztapalapa; ya se 2 days ago La cifra de personas fallecidas por la explosión de una pipa de gas en la Alcaldía Iztapalapa ascendió a 31 tras confirmarse el deceso de Óscar Uriel García

¿Quién era el doctor Óscar Uriel, la nueva víctima de la explosión en 2 days ago El estallido registrado en Iztapalapa el pasado 10 de septiembre de 2025 cobró la vida de 31 personas, el más reciente Dr. Óscar Uriel García Rivera, reconocido urólogo

Explosión en Iztapalapa: cifra de fallecidos sube a 31, muere Óscar 2 days ago La cifra de víctimas mortales tras la explosión de una pipa de gas en el Puente de La Concordia, Iztapalapa, ascendió a 31 personas, luego de que el médico urólogo Óscar

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