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In case of unit vector \hat{n} ,

$$\hat{n} \cdot \hat{n} = 1 \times 1 \times \cos 0^\circ = 1 \quad \Rightarrow \quad \hat{n} \cdot \hat{n} = \hat{i} \cdot \hat{i} = \hat{j} \cdot \hat{j} = \hat{k} \cdot \hat{k} = 1$$

In case of orthogonal unit vectors \hat{i} , \hat{j} and \hat{k} ; $\hat{i} \cdot \hat{j} = \hat{j} \cdot \hat{k} = \hat{k} \cdot \hat{i} = 0$

$$\vec{A} \cdot \vec{B} = (\hat{i}A_x + \hat{j}A_y + \hat{k}A_z) \cdot (\hat{i}B_x + \hat{j}B_y + \hat{k}B_z) = A_xB_x + A_yB_y + A_zB_z$$

Solved Examples

Example 61. If the Vectors $\vec{P} = a\hat{i} + a\hat{j} + 3\hat{k}$ and $\vec{Q} = a\hat{i} - 2\hat{j} - \hat{k}$ are perpendicular to each other. Find the value of a?

Solution. If vectors \vec{P} and \vec{Q} are perpendicular

$$\begin{aligned} \Rightarrow \vec{P} \cdot \vec{Q} &= 0 & \Rightarrow (a\hat{i} + a\hat{j} + 3\hat{k}) \cdot (a\hat{i} - 2\hat{j} - \hat{k}) &= 0 \\ \Rightarrow a^2 - 2a - 3 &= 0 & \Rightarrow a^2 - 3a + a - 3 &= 0 \\ \Rightarrow a(a - 3) + 1(a - 3) &= 0 & \Rightarrow a &= -1, 3 \end{aligned}$$

Example 62. Find the component of $3\hat{i} + 4\hat{j}$ along $\hat{i} + \hat{j}$?

Solution. Component of \vec{A} along \vec{B} is given by $\frac{\vec{A} \cdot \vec{B}}{B}$ hence required component

$$= \frac{(3\hat{i} + 4\hat{j}) \cdot (\hat{i} + \hat{j})}{\sqrt{2}} = \frac{7}{\sqrt{2}}$$

Example 63. Find angle between $\vec{A} = 3\hat{i} + 4\hat{j}$ and $\vec{B} = 12\hat{i} + 5\hat{j}$?

Solution. We have $\cos \theta = \frac{\vec{A} \cdot \vec{B}}{AB} = \frac{(3\hat{i} + 4\hat{j}) \cdot (12\hat{i} + 5\hat{j})}{\sqrt{3^2 + 4^2} \sqrt{12^2 + 5^2}}$

$$\cos \theta = \frac{36 + 20}{5 \times 13} = \frac{56}{65} \quad \theta = \cos^{-1} \frac{56}{65}$$



5.6.2 VECTOR PRODUCT

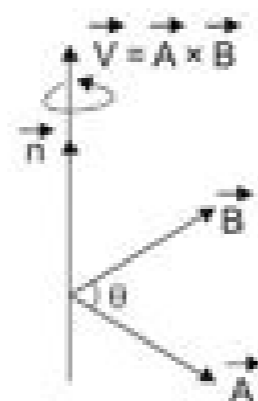
The vector product or cross product of any two vectors \vec{A} and \vec{B} , denoted as

$\vec{A} \times \vec{B}$ (read \vec{A} cross \vec{B}) is defined as: $\vec{A} \times \vec{B} = AB \sin \theta \hat{n}$

Here θ is the angle between the vectors and the direction \hat{n} is given by the right-hand-thumb rule.

Right-Hand-Thumb Rule:

To find the direction of \hat{n} , draw the two vectors \vec{A} and \vec{B} with both the tails coinciding. Now place your stretched right palm perpendicular to the plane of \vec{A} and \vec{B} in such a way that the fingers are along the vector \vec{A} and when the fingers are closed they go towards \vec{B} . The direction of the thumb gives the direction of \hat{n} .



2. Qualitative data analysis techniques

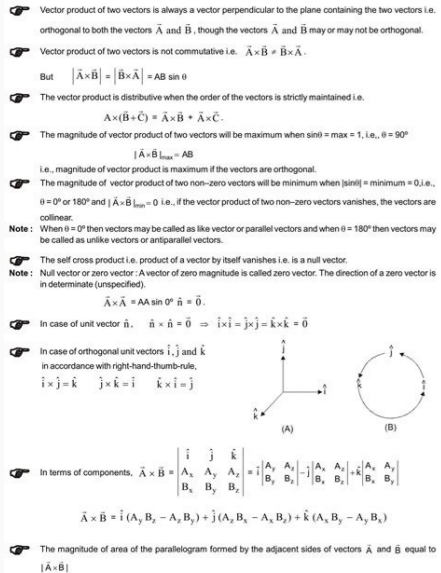
a. Before analysis techniques in the field:
Qualitative research has been to analyze the data before investigators enter the field. Focus of this research is still tentative and drive upon entering and while in the field.

b. Analytical techniques in the field during the model Miles and Huberman:
Data analysis was carried out interactively and continues over time until complete until the data is already saturated after completion of data collection.

c. Techniques of data analysis according to Spradley:
Selecting the situation, Implement participant observation, Record observations and interviews, Conduct the analysis theme, Findings culture, until to Writing a qualitative research report.

II. Rationale of the Study:

The children start learning social behaviour during teenage. Over a period of time, various factors help or interfere with successful social behaviour of the individuals. They learn and unlearn certain behaviour and create a pattern at different ages. The pattern of such behaviour needs to be studied. Some of such children may deviate towards thinking pattern, which may not be appropriate with social norm. The suicide ideation is one such condition, which needs to be studied. The present study would make an effort to identify positive and negative factors associated with suicide ideation among school going adolescents aged 15-17 years. The social, emotional and behavioural factors will be looked into to find out any correlation between the presence of these factors and suicide ideation among the identified adolescents. There is need to study the relation of family history of such ideas, bullying at school, depression and history of drug abuse among the children and whether presence of such factors lead to suicidal ideation. The social sciences perspectives will be focused in the study as evident in the available literature.



It only makes sense to use one of the keyword research tools for SEO that Google operates, and which lets you pull data directly from Google. The program automatically selects one of the duplicates so that deleting is just a couple of buttons away. The following are several search functions you can modify when searching for files with SearchMyFiles: exclude folders, use wildcards to find subdirectories and files, exclude files by extension, exclude files if they don't contain certain text, search for files larger and/or smaller than a particular size, include/exclude files identified as read-only, hidden, compressed, encrypted, and archived, as well as search by date created/modified/accessed. Using the best keyword research tools makes this task much easier. Google Ads Keyword Planner There are plenty of free SEO keyword tools available, and one of the most popular and useful is the Google Ads Keyword Planner. Newly added or modified files are added to Everything in real-time, so there's no need to manually re-index the database. According to the Everything website, it takes one second to index around a million files. It's a common problem. Be sure to decline any third-party software offers during installation if you only want the file search tool. The advanced search area is where you can enable case sensitivity, disable searching in subfolders, and more. You can get UltraSearch as a portable program in a ZIP file or as a regular installer. FileSeek can be installed as a regular program or downloaded in a portable form. The exclude filter lets you dismiss files by name, path, and parent folder using wildcards or specific text/phrases. As the name suggests, LAN Search Pro is a file search program that searches for files over the network instead of on local hard drives. Depending on the download link you choose, LAN Search Pro can be installed like a regular application or downloaded and used as a portable program. On the other hand, if you have files all over the place, across several hard drives, a free file search tool is a must. Alternatively, open the full program to select a filter option to show just shortcuts, folders, documents, pictures, videos, or music from the results page. If you want your business to make it to the top, search engine optimization (SEO) and, in particular, identifying keywords to guide the type of content you publish is an essential component of your online marketing strategy. It can search for files on NTFS or FAT drives and supports wildcard search terms for a more flexible search. You can also specify what should happen to the duplicates that you delete: send them to the Recycle Bin, store them in the built-in Rescue Center in case you want them again later, or delete them permanently. When it's time to delete the files, you can sort the duplicates by name, path, size, and date modified. Another free file and folder search tool is called UltraSearch, which features instant search, context menu integration, and an exclude filter. Are your keyword searches generating results that cast the net too wide for your friendly neighborhood store? Everything is another free file search tool for Windows with a super clean program interface that supports tons of awesome features. Any networked computer that you have login credentials for can be searched with LAN Search Pro. There's a toggle in Everything's settings you can use to exclude any custom, system, or hidden file and folder from search results to narrow down what you're looking for. To get started, enter a series of keywords, and then let the generator create all of the different available permutations. Quick Search is the free search utility provided by the Glastysoft software company. It's really easy for a hard drive to become overwhelmed with videos and music since those types of files take up lots of space. This handy program has two distinct advantages: Google is the most widely used Internet search engine, with a massive 92.86 percent market share according to the StatCounter website, which means your online marketing efforts should always focus predominantly on Google. There's a section in the program to store credentials in case you're not a system administrator on the networked computers. When you open Quick Search, a minimized version of the full program is displayed on the bottom of the screen. FileSeek offers an Exclude paths section in addition to a regular Paths text area so you can really narrow down results before even beginning a search. This is an incredibly quick way to automate a time-consuming process, and also makes it easier to find keyword combinations that come together to form long-tail keywords you might not otherwise considered. IMforSMB Bulk Keyword Generator Do you have a small business? Everything also includes an HTTP and FTP server so you can access the files of networked computers that also have the program installed. Most keywords work on the basis you want to be as big as possible, but sometimes you want keywords that are more tailored to your business needs. MORE FROM QUESTIONSANSWERED.NET A free file search tool is exactly what it sounds like—freeware that searches files on your computer. This keyword analysis tool is easy to use and incredibly comprehensive. All connected drives can be searched through at once, including external drives. Derek Abella / Lifewire If you've always been great at naming and organizing the hundreds or thousands (or more) files on your computer, you might need one of the programs. Enter keywords into columns and click generate to let the application go to work combining them in hundreds of different ways. Regular searches are obviously supported, but SearchMyFiles also includes a duplicate file finder to make it easy to remove cloned files. You can search from anywhere by just focusing your mouse on it to reveal the search box. All you have to do is select which search engine you want to use and then enter your search text. Files are indexed quickly with Quick Search and can be searched through using instant search so you don't even have to press the Enter key to see them. UltraSearch is really quick and can sort tons of results by details like last modified date or file size in nearly an instant — much quicker than some of the other programs in this list. You must know the specific type of Windows installation you have before downloading UltraSearch: 32-bit or 64-bit. You can ignore files smaller and/or larger than a certain size, ignore file names and file dates, ignore hidden files, and search for files that have certain words in the file name. WiseJetSearch is a free file search utility that can search for files on any attached drive in Windows. As you begin searching for files, the results show up instantly — there's no need to wait or press Enter. You can also refine the search parameters with date and file size filters. There are lots of programs out there that can search for files, but not all of them are made to find duplicate files. AdWords & SEO Keyword Permutation Generator SEO is the way to make your marketing system as efficient and effective as possible. It's also simple to accidentally download music you already have, and if you suspect you've done that, or that you have old backups you no longer need, a duplicate file finder can clean up the copies. There are options to use from four to nine columns, and it's possible to mark certain columns as optional to enhance and refine the results you get. This file search program can look for duplicates of all file types, or you can pick just images, audio files, videos, archives, and/or application files. Despite its tiny 100 KB file size, SearchMyFiles is a portable file search utility for Windows that hosts tons of detailed features. That's much easier when you make use of the AdWords & SEO Keyword Permutation Generator, which lets you explore new combinations of keywords and keyword phrases quickly to help you reach new target markets. All of these settings are optional. You enter your keyword or text string to get a detailed list of results, comprising keyword suggestions with the number of hits they receive, and a suggested bid amount for your "pay-per-click" advertising model. SearchMyFiles can also save the criteria of any search so you can easily open it again in the future, export search results to an HTML file, and integrate itself into the Windows right-click context menu. This program from Auslogics, aptly called Duplicate File Finder, does just that. Thanks for letting us know! Tell us why! Within seconds, you have a list of potential keywords to consider. During setup, FileSeek requires a trial of the professional version to be enabled. When you look for files from this search area, the results show in a small popup screen for quick access. You can press the Ctrl key to show/hide the search bar. Results open in the full program. The simple application draws on various search engines to provide a comprehensive list of auto-complete suggestions for any given keyword. Quick search is a small hidden bar that hovers at the top of your screen. The IMforSMB Bulk Keyword Generator lets you specify a business and location and gives results that are much more effective for generating local buzz. Soovle You know how when you're typing into Google's search bar, and Google starts to make auto-complete suggestions to save you time? These free file search tools are robust programs, many with dozens more features than the built-in search function your computer has now. You get instant keyword phrases, which means you don't have to spend hours thinking them up yourself. Keyword InKeyword In is similar to the Keyword Permutation Generator, but it has a few additional functions and options for more keywords. Quick Search indexes files and folders from all attached drives, which means you can traverse all drives to find what you're looking for. It would seem the features would stop here, but Everything is even free for commercial use, includes a portable download option, and lets you save searches as bookmarks for easy recall. You can revert to the free version from the program settings else it will automatically take over after 30 days. You can use Everything to search from the Windows right-click context menu and find files across several NTFS drives at once, both internal and external ones. After you pick the file type to look for, the search criteria page lets you specify some settings to make the search really customized. Well, that's exactly what Soovle does.

13/07/2018 · Screening is an important part of preventive medicine. Ideally, screening tools identify patients early enough to provide treatment and avoid or reduce symptoms and other consequences, improving health outcomes of the population at a reasonable cost. Cost-effectiveness analyses combine the expected benefits and costs of interventions and can be ... Gather Information and data to perform data analysis to support methodology development and data development; ... or other related mathematical disciplines Minimum 2 actuarial exams Strong technical, analytical and problem solving skills that allow for deep statistical analysis ... Maintain research tools by updating database files as needed Content Search: This feature allows users to conduct qualitative research using the research methods mentioned in the above section. The most effective software tools use a wide range of search methods to gather qualitative data. They can extract content from video sources, audio files, text documents, graphics, and other sources of qualitative data. INTRODUCTORY LECTURES ON RESEARCH METHODOLOGY ... Download Full PDF Package. Translate PDF. Related Papers. Doing Quantitative Research in Education. By fauzi kumala akbar (2) doing quantitative research in education with spss by daniel muijs. By Ruddy Lesmana. Doing Quantitative Research by Daniel Muijs. Simple techniques for data analysis are used to illustrate both effective and fallacious uses of data science tools. Although this course is designed to be at the level of mathematical sciences courses in the Core, with little background required, we expect the students to develop computational skills that will allow them to analyze data. 29/04/2022 · The detailed statistical tables in this report present data on domestic and global research and development expenditures and the R&D workforce of for-profit, nonfarm businesses with 10 or more paid employees operating in the 50 U.S. states and the District of Columbia. These data were collected by the Business Enterprise Research and Development Survey ... Definitions. The Certified Information Systems Auditor Review Manual 2006 produced by ISACA, an international professional association focused on IT Governance, provides the following definition of risk management: "Risk management is the process of identifying vulnerabilities and threats to the information resources used by an organization in achieving business objectives, ...

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