

Basic Concepts of Physics and Their Relation with Vaastu-Shastra

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Abstract:

The concepts of physics and ancient Indian science vaastu shastra are strongly co-related to each other. As physics is the knowledge of nature, the vaastu principles are related with the natural energies of earth and vaastu-shastra prescribes desirable characteristics for sites and buildings based on flow of energy. If a house is build according to vaastu guidelines , the residents can lead a peaceful, healthy ,serene and tranquil life.

Keywords: Vaastu-Shastra, Solar radiations, Magnetic field, Magnetic lines of forces, Uttaranyan, Dishanyan.

Introduction

Physics is the branch of science in which we observe, measure and describe the natural phenomenon related to matter and energy or in other words physics explain the behavior of natural system on the basis of established laws of nature [Beiser (1997) and Halliday (2010)]. Vaastu Shastra is a vast and ancient science of living. The word Vaastu is derived from the root “Vaas” which means “to reside”. Vaastu means dwelling of Human and Gods in the original Sanskrit literature (Atharva Veda). Hence Vaastu - shastra is the science of architecture which not only deals with various aspects of building construction but also deals with various aspects of vaastu, science, religion and astrology. Engineers can build a luxurious house but can not assure happy life to the people living in that house whereas vaastu shastra assures peace, prosperity and progress to the owner. We can co-relate the branches of physics such as heat, sound, optics and magnetism with Vaastu Shastra rules very strongly because it is based on various natural energies which are available free of cost in the atmosphere like:

- Solar Energy from Sun,
- Lunar Energy from Moon
- Electric Energy
- Magnetic energy
- Thermal energy
- Wind energy
- Light energy
- Cosmic energy

Utilization of such energies gives us pleasure, peace and prosperity in own life, in physics there are various forces in action such as the gravitational force, magnetic force, centripetal force etc. For the stability of anything the balance of force is necessary. In case of vaastu there are three forces in action to create harmony, Wind or Air (Vaayu), Water (Jal) and Fire (Agni). If these forces are kept in their appropriate places, then there will be no disturbance. But if water is put in place of fire and wind in place of water or in any other combination the force will stand acting accordingly and create disharmony and un-peacefulness. Vaastu is a logical explanation of scientific truths and facts and is based upon two important scientific facts:

- i) Magnetic property of the Earth.
- ii) Rotation of the Earth.

Nature and Vaastu:

The whole Universe is combination of five basic elements. Human body too is a unique example of these five Basic elements. Human body consists of five elements which finally merge into respective five elements. Formation of body is dependent on following equation of birth and death (creation and destruction)

Fire + Air + Water + Earth +Space = Body formation (Creation)

Physical form of body – (Air +water+ fire+ Earth+ Space) = Process of destruction

While constructing a building if all five basic elements of nature are considered, then creative energy, electric energy, magnetic energy are produced and it gives good health, wealth and prosperity to human beings. In fact vaastu is composite of proportional blend of five elements viz. earth, water, space, air and heat (fire). Their equitable proportion creates Bio-electric magnetic energy which bestows health, wealth and prosperity on human.

Importance of directions in Vaastu Shastra

Directions and orientations have great prominence in Vaastu (Fig.1). There are total eight directions North, South, East and West are called cardinal directions and the point where any of the two directions meet is called inter cardinal or ordinal point like North East, South East, South West and North West. These directions are dictated by sunrise and sunset and Uttarayan and Dakshinayan [Anand (2004)] (Fig.2) and give a lot of importance in Vaastu Shastra as they combine the benefits of two directions in totality. Here each direction is suitable for a particular element (Fig.3 and Fig.4) and certain activities. We can create an environment of prosperity by using the right activity direction [Manan (2013)].

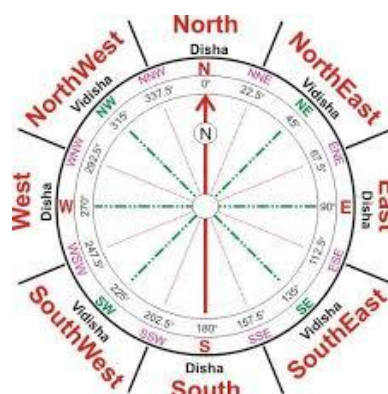


Fig.1 Direction and their orientation (Compass Needle)

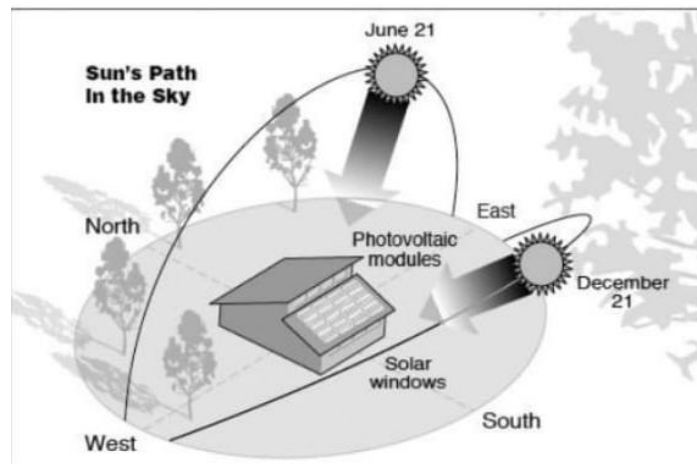


Fig.2 Sun's Path in the Sky [4]

East: Being ruled by Sun, the life giving force, it is perfect direction for the entrance. The morning Sun light brings with it, a lot of good health and healing properness. This direction is governed by Lord Indra and he is known to be the king of Gods. He bestows wealth and pleasures of life.

South East or Aagneya:- This direction is governed by Lord of fire-Agni. He gives us good personality and all good things of life. Fire is a source of health, as it is related to fire, cooking and food. Hence it is perfect for Kitchen.

South: This direction is of Yama, the God of death. He is manifestation of dharma, and eradicates evil forces and bestows good things. It is a source of wealth, crops and pleasure.

South West or Naritya :- This directions gives us strength, it can be used for bed room. This direction is directed by Niruti, the God who protects us from evil foes.

West:- This direction is directed by Lord Varun, the Lord of rains, He bestows his blessings in the form of natural water-rain, brings prosperity and pleasures of life.

North West or Vaayauya: This place is directed by Lord Vayu and he brings good health, strength and long life. It is a source of change in course of business, friendship and enmity.

North : This direction is governed by Kubur, the God of wealth.

North East (Eeshan):- This place is a supervised by Lord Eeshan, and is a source of wealth, health and success, He brings us wisdom, knowledge and relieves us from all miseries and mishaps. It is perfect for Pooja-room and meditation room.

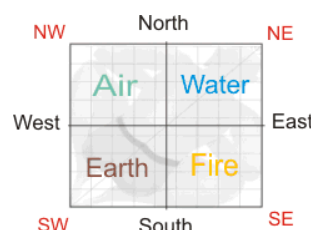


Fig.3: Direction and Corresponding Elements

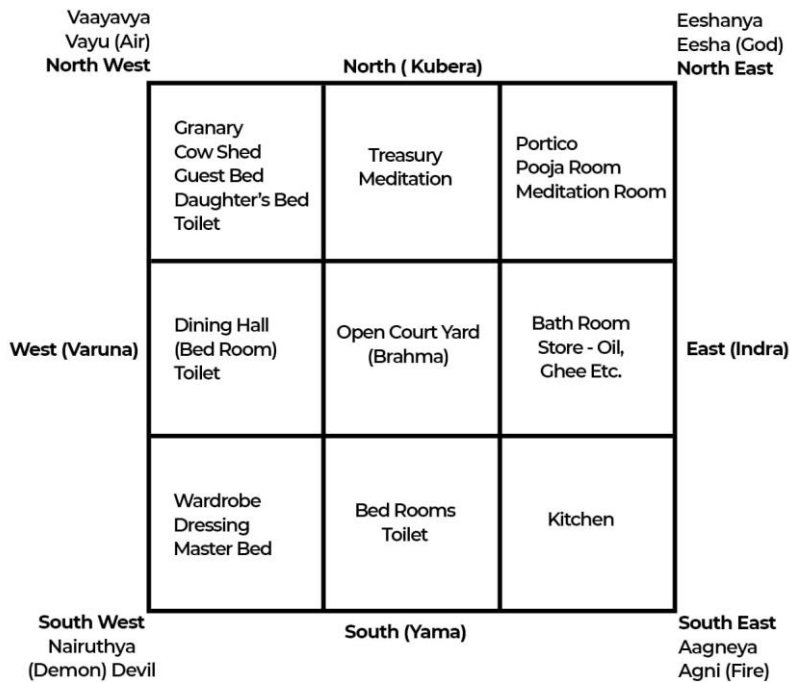


Fig.4: Directions and their presiding Deities [6]

Solar Radiations and electromagnetic waves

The process by which we receive the heat from the sun is termed as radiation. Thermal radiation has the same nature as light. As the sun rises in the East and set in the West, its rays have different frequencies from morning to evening. The morning sun is very beneficial for human bodies.

If houses are built as per laws of nature, most of the natural sources of energy can be utilized for the good of house owner. The morning sun rays i.e., solar energy is rich in Vitamin D and it directly affects our body. Similarity Sun-rays in noon carry ultra-violet radiation which spells adverse effects on the body. So the house orientation should be planned in such a way that the afternoon sun-rays have minimum effect on the house and body. If there are more doors and windows in Eastern side the whole mansion will benefit from the morning sun rays because sun rays have the capacity to decimate diseases.

The reason for keeping a kitchen in South-East direction is that morning sun-rays which are rich in Vitamins, travel to the South. As the earth orbits round the sun from south-east, this side derives optimum benefit from sun rays which are rich in Vitamin F and D and thus the kitchen ware and eatables remain pure for longer period. In addition to it, the moisture in western wall is also eliminated due to heat of sun,

The reason for keeping the place of worship in the North-East is that, when we worship, wearing scant clothes, our body should benefit from natural Vitamin D and also the magnetic energy from northern side has salutary effects on the body.

The water channels, flowing from North-East side, are more exposed to quick contamination. As the sun rises, its rays fall on water and carry sun heat to water and the electromagnetic waves keep the water pure.

Magnetic field and magnetic lines of forces of earth.

Our earth was created from the minerals and dust from lava of sun 4.54 million years ago. Due to the large content of iron particles in the form of solid and molten state, it has a magnetic property. The North pole emits the positive magnetic energy and the south pole performs the negative part receiving this energy. Hence the earth is surrounded by magnetic field all over its mass and the direction of magnetic lines of forces is from north pole to south pole (Fig.5). Due to effect of magnetic field of earth it is advised to keep head towards south, as the magnetic beams travel from North to South. Similarly the magnetic field lies from head to feet of a man, so head is called Uttarayan and feet Dakshinayan. If head is kept on the North, magnetic effect won't be there, because North pole of earth will repel man's North pole and would not admit magnetic effect, as a result of which blood circulates in the body would not be able to derive mileage, causing tension in mind and give peaceful sleep.

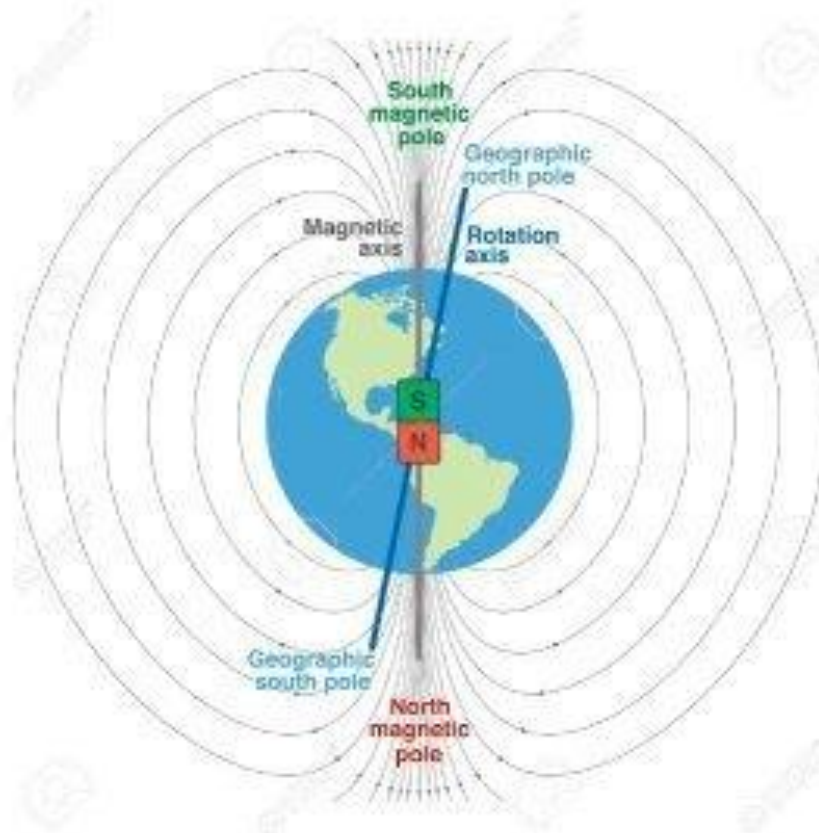


Fig.5: Magnetic Lines of Forces of Earth

Magnetic waves move from North to South, so the business matters should be discussed due to the reason that magnetic energy, emanating from the North, will activate our brain cells quickly and the oxygen so received enhances our memory when brain cells couple with natural energy power and our collective and suggestive memory get a boost and ability.

Colours i.e, wavelength of light in visible region

Colours play a significant role in our life. The use of colour can influence the energy flow, increase good vibes and help to create a harmonic and balanced environment. The application of right colour in the right direction can help to remove the negative energy of a space. Every colour has a particular energy according to its wavelength (Table-1)

Table 1: Range of the visible spectrum and energy

Colour (typical values only)	Wavelength(nm)	Frequency (10^{14} Hz)	Energy (eV)
Red (limit)	700	4.29	1.77
Red	650	4.62	1.91
Orange	600	5.00	2.06
Yellow	580	5.16	2.14
Green	550	5.45	2.25
Cyan	500	5.99	2.48
Blue	450	6.66	2.75
Violet (limit)	400	7.50	3.10

According to Vastu Shastra, each colour has its own special qualities and effects as well as associations with particular elements. Red, which is linked to the fire element, stands for strength, passion, and vigour. It generates passion and energies in people. Yellow is the colour that symbolize the earth element and is linked to intelligence, optimism, and creativity. The colour blue is linked to the water element and stands for emotional harmony, tranquilly, and peace. The colour green stands for the wood element and denotes development, harmony, and balance. It is connected to nature.

While these are the fundamental connections between colours according to Vastu Shastra and wavelength of light. It is important to keep in mind that when picking colours for a place, individual preferences and particular requirements should also be taken into account. It's essential to strike a balance and come up with a harmonious colour scheme that speaks to the residents and their objectives. In a broader sense colours greatly influence our feelings, overall health, and the energy of our environment.

Conclusion: On the basis of above facts, it is concluded that with the implementation of natural energies in perfect direction, one can bring prosperity and peace in the life and can live a healthy and wealthy life.

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