

# X-rays and their applications

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## X rays: Their production, characteristics, and applications

In the case of characteristic x rays, the following approximate calculation is reasonable.

### Medical Imaging Types and Modalities

You can see that X rays have shorter wavelengths, higher frequencies, and higher energy than most other types of electromagnetic radiation, and don't penetrate Earth's atmosphere. Scientific research i X-rays are used for studying the structure of crystalline solids and alloys. But on the other hand, X rays can also be used to sterilize medical equipment because they destroy germs and kill tumors in the treatment of cancer.

### Source Development of Novel Coherent X

Photo: A typical chest X ray.

### Radiation in Medicine: X

Cell Phone Radiation Waves Another form of communication that uses radio waves is cell phone transmission. That's why X-ray technicians in hospitals wear lead aprons and stand behind lead screens.

### Radiation

As noted, the effective Z is 73. This gamma-ray emitter has a half-life of eight days and concentrates in the , and so provides a measure of thyroid function. Discovered and named by Wilhelm Rontgen, x-rays can neither be seen with the naked eyes nor can they be felt.

## X rays: Their production, characteristics, and applications

One of its most important properties is color, which is also an inherent feature of the human eye. Rontgen was unable to decide the type and origin of the wave, hence he called these rays as x-rays. Röntgen holed up in his lab and conducted a series of experiments to better understand his discovery.



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