Earthquakes and nuclear bombs

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Estimating the energy of a nuclear bomb after the earthquake it can produce

We must first know that only 1/2 % or (1/200) of the energy of the bomb spread form seismic, then you also know that an earthquake of magnitude 5 is equivalent to an energy released from $(1.99)(10)^{12}$ joules,
then a difference of 2 magnitude is a difference of 1,000 in an amount of energy,
by example, an earthquake of magnitude 7 is a thousand times more energy than a magnitude 5 earthquake, for
a difference of 1 magnitude, extract the square root of 1000, is multiplied by approximately 31.6,
the energy of a nuclear bomb is often given in tons of TNT, a ton of TNT releases energy
of $(4,184)(10)^{9}$ Joules.
magnitude of .1 and .2, by multiplying by $(2)^{(.5)}$ and 2, a 1 interval give 2^{5} or 32, the exact value of a difference of a magnitude of being the square root of 1000, or about 31.6,
compared to the bomb, a atomic bomb was about 10 kilotons of TNT, it rather looks like a mini H-bomb.

References:

Earthquakes and energy
Earthquake magnitude