

The summary of Wave Features Theory of 2011.2.NZ Earthquake Motion.(The same as URAYASU CITY of The TOHOKU Great, The 1964 NIIGATA Earthquake.)

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1. none

I . PREFACE: had summarized wave features theory of 2011.2.NZ Earth quake Motion. In this area, many seismoments are mstalled. As a result, 9easily summarized wave features theory. City of the 2011 TOHOKU Great Earthquake and The 1964 NIIGATA Earthquake.

II . The Wave Features Theory

(1) V(vertical)this wave features are closely related to the normal wave features. A and B wave features appears soft ground states.

(2) The excellent period is about 0.2 sec, therefore $f=1/f$ this fregurency is high considerably. But the period of the A and B is 4 or 5 times.

(3) The fregurencie of V in completely different from A, B. As thus result, phase shift gres rise to amatter of course. On the CTV building, some supernatural power seems to be at work.

In this short, the complicated oscillation and sotation (twis acr on bwdings, moreover coming ont top of Rayleigh wave actions.

(4) The horizontal rayleigh wave features shows many reversal of phase. As a result, the building satate on an vential axis. This setation (twist) is very important force. Of course, CTV building. (Reference. Masaru NISHIIZAWA : The strong spectrum of resemblance between frontier spectrum and Phase difference spectrum of the seismic wave. (Science of form) 2016, JpGU,S-SS25-P35.

This notation force is one of the importance pf the phase spectrum.

(5) (+)Acceleration and (-)Acceleration indicates different values. Namely, A,B,U acceleration together (+)acceleration indicates higher values than (-) one. This fact indicates the existence of the firm ground than the appear ground. This is the difference of the reflection between firm and soft ground.

(6) I Think that the thickness of the soft ground in soft is not all by my fair judgment by observing wave features of the soft ground.

(7) The same distance from the center from the center of the earthquake, though the time of arrival in exists different observation point . This reason is that the speed of the wave of soft ground in slow generally than the firm one.

Abstract:

Because of soft ground, Phase of seismic wave devided from correct behavior and generated rotation (twist) arownd CTV Building (the buildings).

This factor of this rotation (twist) in the phase shift or reversal of phase. This is one of the importance of the phase spectrum.

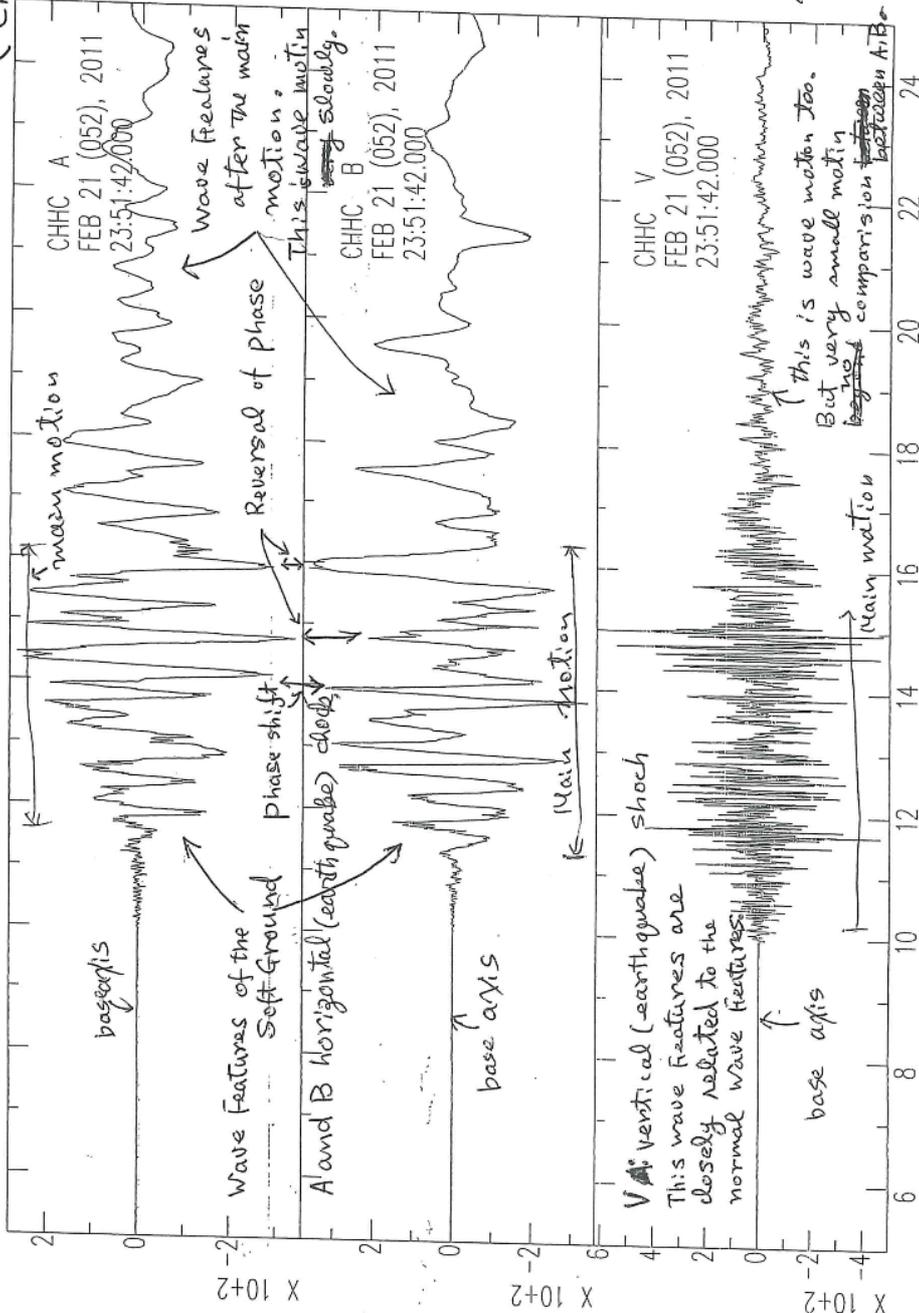
The wave Features of Christchurch.

73 仅 A
(Christchurch)
の波形状
(Wave features)

の事取西、南に
波の位相は逆転
している。他と同
いじ、水手方(向)に
建物、に反対(向)回
り(又は右回り)が主
いざこざが主

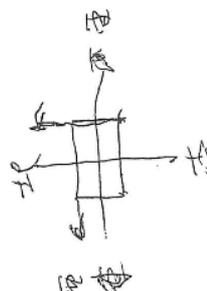
の主要動は以後の
波形状波と同じ
ものである。

しかし、上下動も
多少は波の同じ
が、振幅、周期は
比べて小さい。



(+) amount of SA, B, V acceleration is high (電中距離 8 km)

than (-) amount acceleration.
This fact point out existence of a hard type of the ground
than this soft ground. And this soft ground
is not thickly layered, particularly thick.



The wave Features of Niigata Earthquake

