**[v] DOUBLE CHECKED**



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On the interface between the lower left corner of the block (k,l) and the upper left corner of the block (k,l-1), the relative velocity of those two corners:

If or : (there is no fiction force)

Otherwise, if :

else:

where,

: Static friction coefficient

: Kinetic friction coefficient

: Decay coefficient of Static-kinetic friction coefficient relationship

: Critical relative velocity for frictional slip/stick condition

The friction force on the upper left corner of the block (k,l-1) and the corresponding moments are:

On the interface between the lower right corner of the block (k,l) and the upper right corner of the block (k,l-1), the relative velocity of those two corners:

If or :

Otherwise, if :

else:

The friction force on the upper left corner of the block (k,l-1) and the corresponding moments are:

The resultant forces and moments acting on block (k,l) and (k,l-1):

For l=1, following equations should be modified: