Tables of Chapter 4

Slip – weakening parameters

2 – D

$v_S = 1.0$	$v_P = 1.732$	
$t_0 = 1.0$	$t_u = 1.8$	$t_f = 0.$
$d_0 = 1.3$		
$Dx = 0.05$		
$x_{init} = 50.8$		
$v_{force} = 0.5$		

3 – D

$v_S = 1.0$	$v_P = 1.732$	
$t_0 = 1.0$	$t_u = 1.8$	$t_f = 0.$
$d_0 = 1.3$		
$Dx = 0.2$	$Dy = 0.2$	$Dz = 0.2$
$x_{init} = 24.5$	$z_{init} = 25.$	
$v_{force} = 0.5$		
$f_{init} = 0$ degrees		

Table 4.1. Input parameters, in non – dimensional units, for the reference case of 2 – D and the 3 – D (configuration #24) dynamic models.

Simulation #30

$t_0 = 3.0$ $t_u = 3.8$ $t_f = 2.0$

$f_{init} = 45$ degrees

Simulation #34

$t_0 = 4.0$ $t_u = 4.8$ $t_f = 3.0$

$f_{init} = 45$ degrees

Simulation #35

$t_0 = 10.0$ $t_u = 10.8$ $t_f = 9.0$

$f_{init} = 45$ degrees

Table 4.2. Parameters used in the configurations #30, #34 and #35. All the quantities are expressed in non – dimensional units. The parameter non listed are the same reported in Table 4.1.

Simulation #var8

$t_0 = 1.0$ $t_0 = 1.0$

$t_u = 1.8$ $t_u = 3.0$

$t_f = 0.$ $t_f = 0.$

$f_{init} = 45$ degrees

Heterogeneity: barrier after $x_1 = 124.6$

Simulation #var7

$t_0 = 1.0$ $t_0 = 1.0$

$t_u = 1.8$ $t_u = 20.0$

$t_f = 0.$ $t_f = 0.$

$f_{init} = 45$ degrees

Heterogeneity: barrier after $x_1 = 124.6$

Table 4.3. Parameters used in the heterogeneous configurations reported if Figure 4.15 and 4.16, respectively. Other parameters are the same of those listed in Table 4.1.