

## The effect of the 1995 Kobe Earthquake on its aftershocks; analyses with Coulomb Failure Functions

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We investigated the influence of the 1995 Kobe earthquake on its aftershocks in terms of Coulomb Failure Functions (CFF). We used 275 aftershocks with focal mechanism solutions, which occurred from January 17 to August 1, 1995. We found that most of the aftershocks with positive CFF on both nodal planes are located on the fault zones, while many aftershocks with negative CFF on

both nodal planes occurred off the faults. Aftershocks in January have higher CFF values than that of the later aftershocks, which may suggest that aftershocks triggered by the Kobe mainshock with a large CFF occurred sooner after the mainshock than those with a small CFF. There is also a possibility that the later aftershocks were triggered by both the mainshock and the earlier large aftershocks.