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Sommario/riassunto	Based on a contact analysis of optically measured surfaces the mean value, standard deviation and spectrum of the friction coefficient can be determined. With this parameters the friction coefficient can be modelled as a stochastic process which takes the surface characteristic into account. Afterwards the influence of the stochastic friction coefficient on friction induced vibration is studied with the help of the mass on a belt model, e.g. the question if the limit cicle exists.