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An extended macro model accounting for acceleration changes with memory and numerical tests

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***Highlights (for review)**

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1. A new continuum model is developed with the consideration of effect of acceleration changes with memory.
2. Applying the linear stability theory, the new model's linear stability is obtained.
3. Through nonlinear analysis, the KdV-Burgers equation is derived.
4. The fuel consumption and exhaust emissions for this model are studied.

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