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## Asymptotic Analysis of the Dominant Mechanisms in the Coffee Extraction Process

K. M. Moroney, W. T. Lee, S. B. G. O' Brien, F. Suijver, and J. Marra

<https://doi.org/10.1137/15M1036658>

Extraction of coffee solubles from roast and ground coffee is a highly complex process, depending on a large number of brewing parameters. We consider a recent, experimentally validated, model of coffee extraction, describing extraction from a coffee bed using a double porosity model, which includes dissolution and transport of coffee. It was shown that this model can accurately describe coffee extraction in two situations: extraction from a dilute suspension of coffee grains and extraction from a packed coffee bed. Despite being based on some simplifying assumptions, this model can only be solved numerically. In this paper we consider asymptotic solutions of the model describing extraction from a packed coffee bed. Such solutions can explicitly relate coffee concentration to the process parameters. For an individual coffee grain, extraction is controlled by a rapid dissolution of coffee from the surface of the grain, in conjunction with

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Jessica M. Conway and Alan S. Perelson

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