44. Zvi Artstein and Arie Leizarowitz, **Tracking periodic signals with the overtaking criterion.** IEEE Trans. on Automatic Control AC-30 (1985), 1123-1126.

Abstract. The overtaking criterion is suggested to evaluate the tracking of periodic signals on an infinite horizon. Existence, uniqueness and a feedback form are established. The asymptotic dynamics of the solution and its relation to the asymptotic performance of the finite time optimizers are examined.

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