On some asymptotic properties of solutions to second-order linear differential equations with periodic non-constant coefficients

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We will discuss some asymptotic behaviour of solutions to the equation

$$u'' = p(t)u + g(t)u', \tag{1}$$

where $p, g\colon \mathbb{R} \to \mathbb{R}$ are ω-periodic (in general, sign-changing) locally Lebesgue integrable functions. Stability of equation (1) will be discussed, as well.