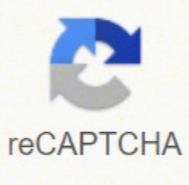
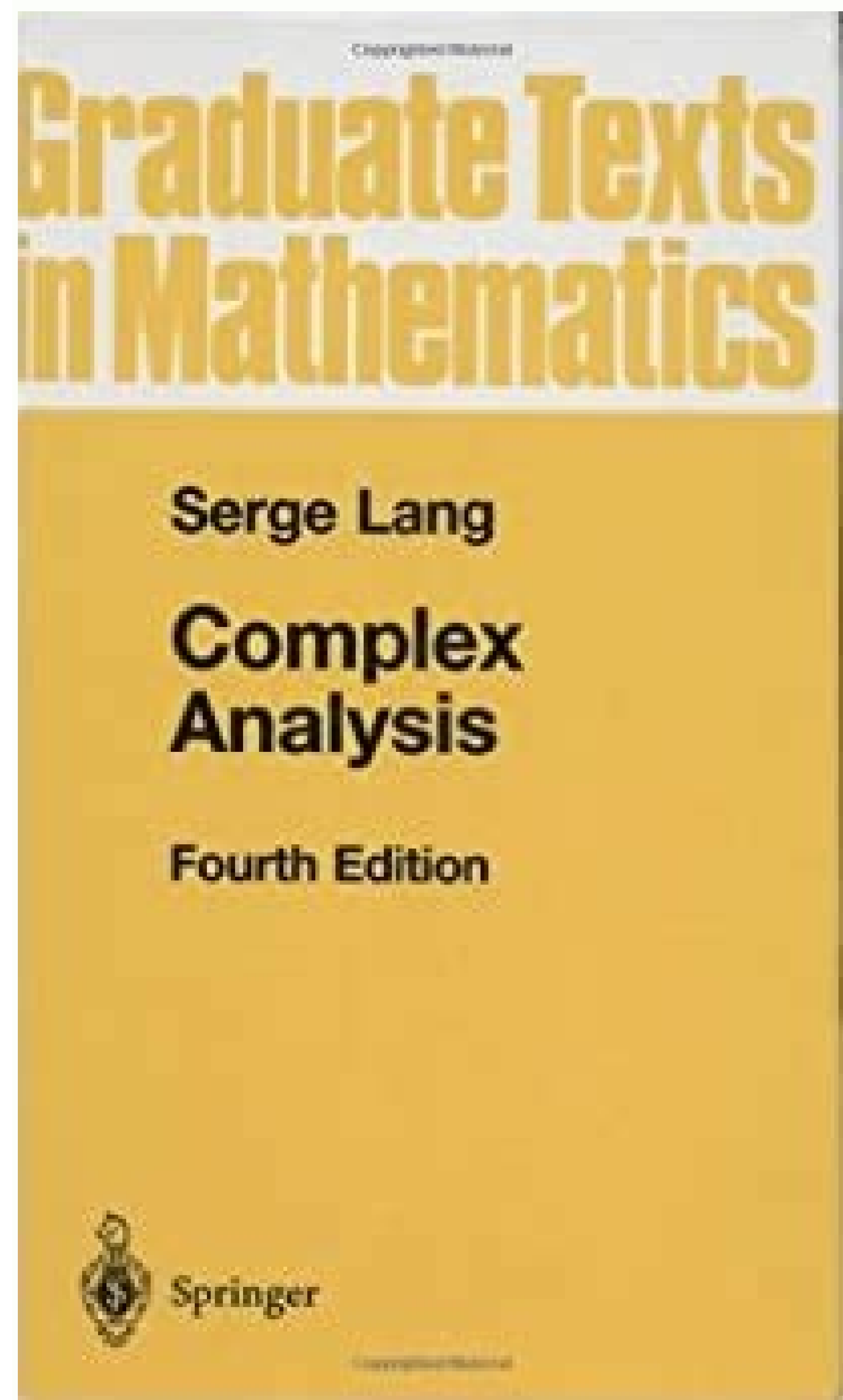




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Theorem 6.3. Let f be analytic at z_0 .

$$f(z) = a_0 + \sum_{n=1}^{\infty} a_n(z-z_0)^n$$

Let $\alpha > 0$ and $\beta > 0$. Then there exists a local analytic function g at z_0 such that

$$f(z) = g(z) + O(|z-z_0|^{-\alpha})$$

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6.2 **Series** **10, 85**

We interpret Theorem 6.3 as follows. Let

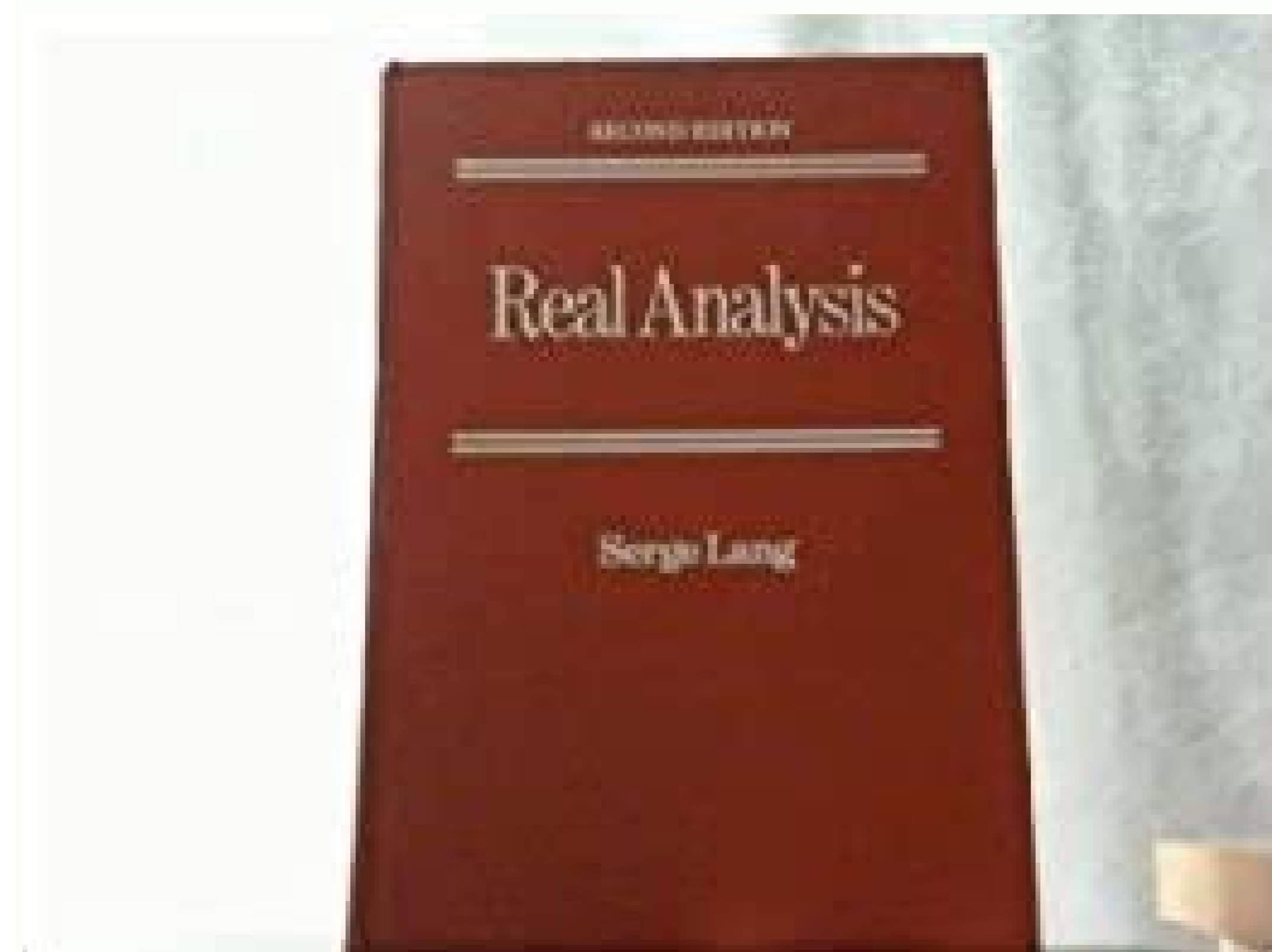
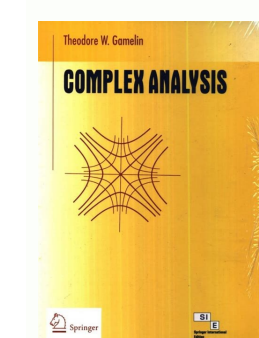
$$g(z) = \sum_{n=0}^{\infty} a_n(z-z_0)^n$$

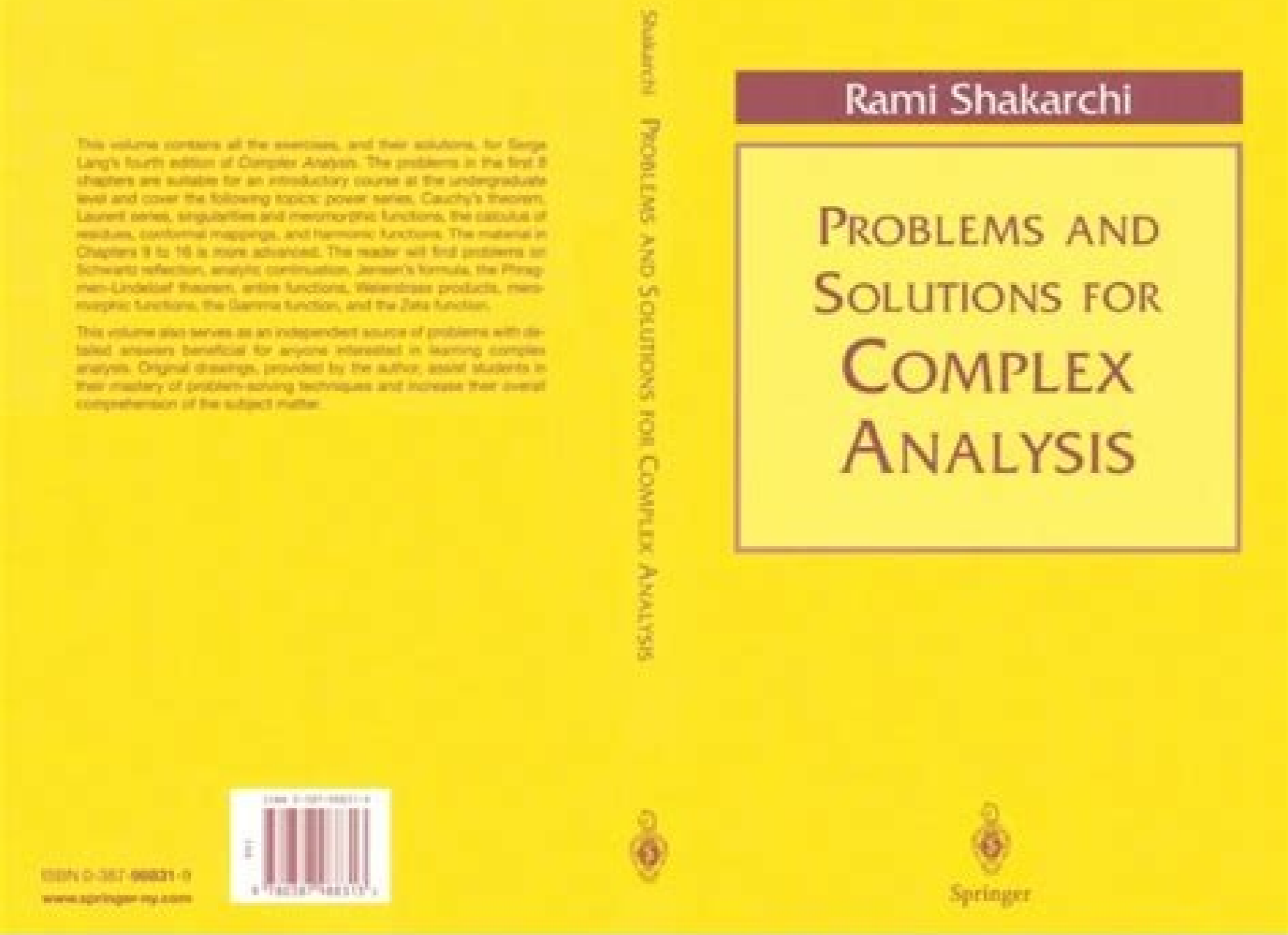
be an analytic function. We write $z = z_0 + \rho e^{i\theta}$. We may view f as a power of ρ multiplied by the function g in the variable $\rho e^{i\theta}$. In Theorem 6.3 we may therefore write

$$f(z) = g(z) + O(\rho^{-\alpha})$$

where $\rho = |z-z_0|$. The expression $O(\rho^{-\alpha})$ in terms of the modulus ρ is therefore much simpler than in terms of the coordinate z .

We also get a criterion for a function to have an analytic inverse in a whole open set.





PROBLEMS AND SOLUTIONS FOR COMPLEX ANALYSIS

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