



# INTRODUCTION TO COMPLEX ANALYSIS

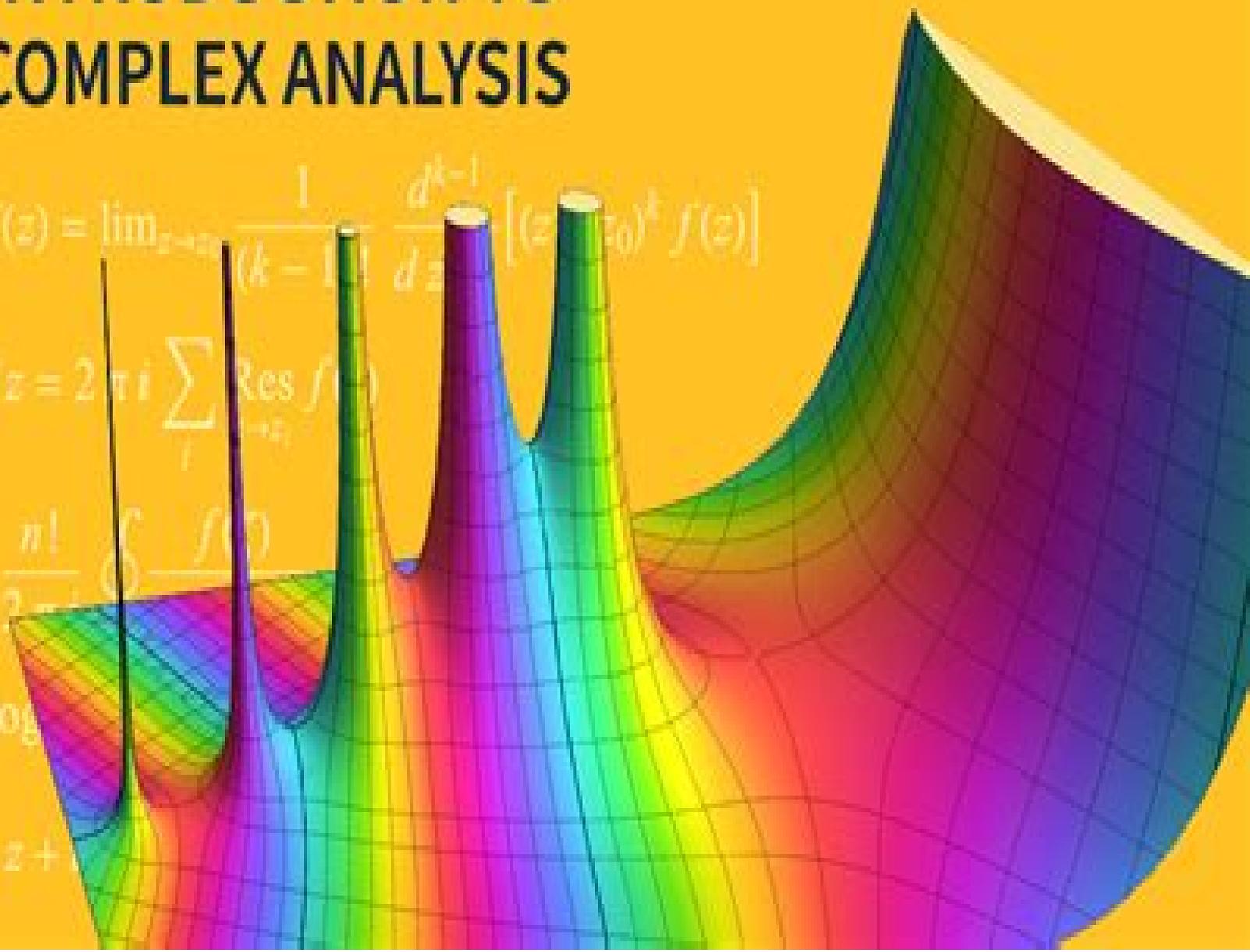
$$\operatorname{Res}_{z \rightarrow z_0} f(z) = \lim_{z \rightarrow z_0} \frac{1}{(k-1)!} \frac{d^{k-1}}{dz^{k-1}} [(z-z_0)^k f(z)]$$

$$\oint_C f(z) dz = 2\pi i \sum_{z \rightarrow z_0} \operatorname{Res} f(z)$$

$$f^{(n)}(z) = \frac{n!}{2\pi i} \oint_C \frac{f(\zeta)}{(\zeta-z)^{n+1}} d\zeta$$

$$\log z = \log |z| + i \arg z$$

$$e^{iz} = \cos z + i \sin z$$



# Complex Analysis

**Lars Ahlfors**



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