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Andreotti-Grauert theory by integral formulas. (Licensed ed. of the Akademie Verlag, Berlin). (English) [Zbl 0654.32002](#)

Progress in Mathematics, 74. Basel etc.: Birkhäuser Verlag. 270 P. (1988).

MSC:

32-02 Research exposition (monographs, survey articles) pertaining to several complex variables and analytic spaces

32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)

32F10 q -convexity, q -concavity

32W05 $\bar{\partial}$ and $\bar{\partial}$ -Neumann operators

Cited in 17 Documents

Keywords:

Andreotti-Grauert theory; cohomology of q -convex and q -concave manifolds; explicit member of M as explicitly as possible (\mathcal{M} is a quotient of a homogeneous manifold by a discrete group, but the action may be bad and \mathcal{M} may have no analytic structure). The author studies and classifies also rational endomorphism rings of T . The pair (T, G) is called special if the complex representation factors through $SL_2(\mathbb{C})$. Such pairs are studied more in detail. The lattice structure of $H^2(T; \mathbb{Z})$ is studied and several interesting relations are given. For example, a necessary and sufficient condition for a singular abelian surface T to admit a special action of a given group G is given in terms of the Neron-Severi lattice of T