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Nota di contenuto	Contents -- Preface -- Local holomorphic dynamics of diffeomorphisms in dimension one -- Prologue -- 1. Formal Normal Forms -- Germs of formal diffeomorphisms -- Homological equation, resonances and the non-parabolic case -- Formal normal forms in the parabolic case -- Germs of vector fields and flows: the formal classification revised -- 2. Holomorphic Dynamics -- The hyperbolic case -- The elliptic case: Cremer, Siegel diffeomorphisms and small divisors -- The parabolic case: the Leau-Fatou flowers theorem -- 2. Hyperbolic Geometry -- 3. Other metrics in complex analysis and potential theory -- 4. CAT(k) and related curvature conditions -- 5. Gromov hyperbolicity -- 6. Appendix: terminology of metric geometry -- References -- Virasoro algebra and dynamics in the space of univalent functions -- Composition operators - Toeplitz operators -- Two applications of the Bergman spaces techniques.