

not known whether canaigre red or gallic acid is the product of its decomposition. Crystals have been obtained by agitating an aqueous extract of the root with ether, which do not resemble either gallic acid or catechin. This crystalline compound and the pure tannin are under investigation by me at the present time.

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Prepared for the Brittle Books Project, Main Library, University of Illinois at Urbana-Champaign by Northern Micrographics Brookhaven Bindery La Crosse, Wisconsin. 2012. . 1 I. 88-136 are missing from the original MS, but are supplied by a hand of the ixth or xth Century. This MS has suffered much more than A through the accidents of time. There are a good many erasures, and several pages have been badly rubbed, and (in places) re-inked. In this paper we present some functional analytic tools that allow us to prove a theorem on q -smoothness of general (discrete and continuous) invariant manifolds for q -systems. A crucial role in this proof will be played by a theorem on ϵ -parameter dependence of a fixed point of a contraction defined on a scale of Banach spaces. This fixed point principle is stated independently and may be of interest in itself. Further functional analytic considerations concerning smoothness properties of the Nemytski operator are presented in a rather general form. Throughout the paper we treat the two cases.

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