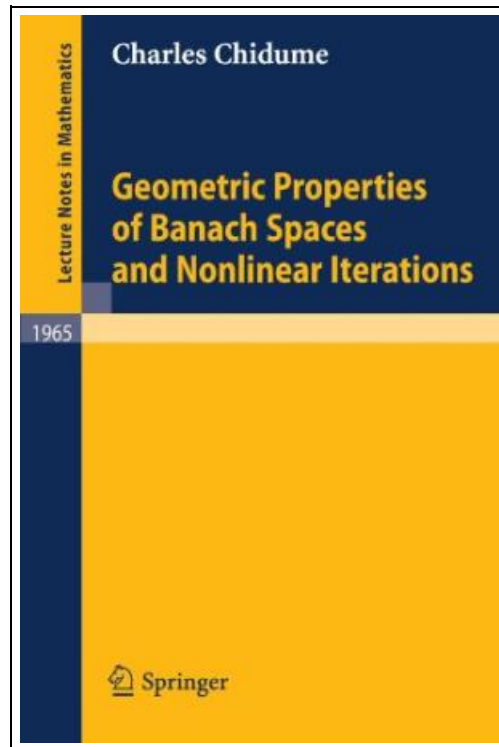


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Springer London Ltd, United Kingdom, 2009. Paperback. Book Condition: New. 2009 ed.. 234 x 152 mm. Language: English . Brand New Book. The contents of this monograph fall within the general area of nonlinear functional analysis and applications. We focus on an important topic within this area: geometric properties of Banach spaces and nonlinear iterations, a topic of intensive research efforts, especially within the past 30 years, or so. In this theory, some geometric properties of Banach spaces play a crucial role. In the first part of the monograph, we expose these geometric properties most of which are well known. As is well known, among all infinite dimensional Banach spaces, Hilbert spaces have the nicest geometric properties. The availability of the inner product, the fact that the proximity map or nearest point map of a real Hilbert space H onto a closed convex subset K of H is Lipschitzian with constant 1, and the following two identities $\|x+y\|^2 = \|x\|^2 + 2\langle x, y \rangle + \|y\|^2$, $\|x+(1-\alpha)y\|^2 = \|x\|^2 + (1-\alpha)^2\|y\|^2 + 2\alpha(1-\alpha)\langle x, y \rangle$, which hold for all $x, y \in H$, are some of the geometric properties that characterize inner product spaces and also make certain problems posed in Hilbert spaces more manageable than those in general Banach spaces. However, as has been rightly observed by M. Hatzewinkel, many, and probably most, mathematical objects and models do not naturally live in Hilbert spaces. Consequently, to extend some of the Hilbert space techniques to more general Banach spaces, analogues of the identities (1) and (2) have to be developed.



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