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Title:	Equivariant maps from stiefel bundles to vector bundles
Authors:	Singh, Mahender (/jspui/browse?type=author&value=Singh%2C+Mahender)
Keywords:	projective Stiefel manifold continuous cohomology cohomological dimension equivariant map
Issue Date:	2017
Publisher:	Cambridge University Press
Citation:	Proceedings of the Edinburgh Mathematical Society, 60(1.)
Abstract:	Let $E \rightarrow B$ be a fibre bundle and let $E' \rightarrow B$ be a vector bundle. Let G be a compact Lie group acting fibre preservingly and freely on both E and $E' - 0$, where 0 is the zero section of $E' \rightarrow B$. Let $f : E \rightarrow E'$ be a fibre-preserving G -equivariant map and let $Z_f = \{x \in E \mid f(x) = 0\}$ be the zero set of f . In this paper we give a lower bound for the cohomological dimension of the zero set Z_f when a fibre of $E \rightarrow B$ is a real Stiefel manifold with a free $\mathbb{Z}/2$ -action or a complex Stiefel manifold with a free S^1 -action. This generalizes a well-known result of Dold for sphere bundles equipped with free involutions.
URI:	https://www.cambridge.org/core/journals/proceedings-of-the-edinburgh-mathematical-society/article/abs/equivariant-maps-from-stiefel-bundles-to-vector-bundles/B9BDB3DA405422AB7D2437D1385E2550 (https://www.cambridge.org/core/journals/proceedings-of-the-edinburgh-mathematical-society/article/abs/equivariant-maps-from-stiefel-bundles-to-vector-bundles/B9BDB3DA405422AB7D2437D1385E2550) http://hdl.handle.net/123456789/2698 (http://hdl.handle.net/123456789/2698)
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