

Pacific Journal of Mathematics

**CORRECTION TO: "ALMOST SMOOTH PERTURBATIONS OF
SELF-ADJOINT OPERATORS"**

JOHN BEN BUTLER, JR.

Correction to

SYMPLECTIC BORDISM, STIEFEL-WHITNEY NUMBERS
AND A NOVIKOV RESOLUTION

DON PORTER

Volume 35 (1970), 205-212

Larry Smith has pointed out that Proposition 7, p. 210 is wrong. Consequently my proof of Theorem A is incorrect, although Theorem A itself is true (Floyd, Stiefel-Whitney numbers of quaternionic and related manifolds, *Trans. Amer. Math. Soc.*, 155 (1971), 77-94, and Segal, Divisibility conditions on characteristic numbers of stably symplectic manifolds, *Proc. Amer. Math. Soc.*, 27 (1971), 411-415).

Correction to

ALMOST SMOOTH PERTURBATIONS OF
SELF-ADJOINT OPERATORS

J. B. BUTLER

Volume 35 (1970), 297-306

- (1) In condition (a) on p. 304 add the statement:

$$“f_1 \text{ even, } f_2 \text{ odd, } |f_1| = |f_2|”$$

- (2) Change the inequality at the bottom of p. 304 to the following:

$$“\int_{-\infty}^{\infty} f_1^2 dx \left(\int_0^{\infty} |f_{n+1}| dx \right)^2 < (128)^{-1}”$$

- (3) Replace the last two sentences at the bottom of p. 305 with the following:

“In this case we assume that A, B are real operators, $Au = f_2(x)(h_2, u)$, $Bu = f_1(x)u$, where f_1, f_2, f_3, g_2, g_3 are in $C(0, \infty) \cap L_1(0, \infty) \cap L_2(0, \infty)$, $\|h_2\| = 1$, and

$$\int_0^{\infty} f_1^2 dx \left(\int_0^{\infty} |f_3| dx \right)^2 < (256)^{-1}$$

so that the perturbation is degenerate. Again $L^1 = L^0 + BA$ is almost smooth but not smooth with respect to L^0 [3, p. 381].”

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Pacific Journal of Mathematics

Vol. 43, No. 3

May, 1972

Max K. Agoston, <i>An obstruction to finding a fixed point free map on a manifold</i>	543
Nadim A. Assad and William A. Kirk, <i>Fixed point theorems for set-valued mappings of contractive type</i>	553
John Winston Bunce, <i>Characterizations of amenable and strongly amenable C^*-algebras</i>	563
Erik Maurice Ellentuck and Alfred Berry Manaster, <i>The decidability of a class of AE sentence in the isols</i>	573
U. Haussmann, <i>The inversion theorem and Plancherel's theorem in a Banach space</i>	585
Peter Lawrence Falb and U. Haussmann, <i>Bochner's theorem in infinite dimensions</i>	601
Peter Fletcher and William Lindgren, <i>Quasi-uniformities with a transitive base</i>	619
Dennis Garbanati and Robert Charles Thompson, <i>Classes of unimodular abelian group matrices</i>	633
Kenneth Hardy and R. Grant Woods, <i>On c-realcompact spaces and locally bounded normal functions</i>	647
Manfred Knebusch, Alex I. Rosenberg and Roger P. Ware, <i>Grothendieck and Witt rings of hermitian forms over Dedekind rings</i>	657
George M. Lewis, <i>Cut loci of points at infinity</i>	675
Jerome Irving Malitz and William Nelson Reinhardt, <i>A complete countable $L_{\omega_1}^Q$ theory with maximal models of many cardinalities</i>	691
Wilfred Dennis Pepe and William P. Ziemer, <i>Slices, multiplicity, and Lebesgue area</i>	701
Keith Pierce, <i>Amalgamating abelian ordered groups</i>	711
Stephen James Pride, <i>Residual properties of free groups</i>	725
Roy Martin Rakestraw, <i>The convex cone of n-monotone functions</i>	735
T. Schwartzbauer, <i>Entropy and approximation of measure preserving transformations</i>	753
Peter F. Stebe, <i>Invariant functions of an iterative process for maximization of a polynomial</i>	765
Kondagunta Sundareshan and Wojbor Woyczynski, <i>L-orthogonally scattered measures</i>	785
Kyle David Wallace, <i>C_λ-groups and λ-basic subgroups</i>	799
Barnet Mordecai Weinstock, <i>Approximation by holomorphic functions on certain product sets in C^n</i>	811
Donald Steven Passman, <i>Corrections to: "Isomorphic groups and group rings"</i>	823
Don David Porter, <i>Correction to: "Symplectic bordism, Stiefel-Whitney numbers, and a Novikov resolution"</i>	825
John Ben Butler, Jr., <i>Correction to: "Almost smooth perturbations of self-adjoint operators"</i>	825
Constantine G. Lascarides, <i>Correction to: "A study of certain sequence spaces of Maddox and a generalization of a theorem of Iyer"</i>	826
George A. Elliott, <i>Correction to: "An extension of some results of Takesaki in the reduction theory of von Neumann algebras"</i>	826
James Daniel Halpern, <i>Correction to: "On a question of Tarski and a maximal theorem of Kurepa"</i>	827