

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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