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**Título:** Yang-Mills Connections On Orientable And Nonorientable Surfaces

**Autor:** Ho Nan-Kuo/ Liu Chiu-Chiu Melissa

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**Sinopsis**

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In "The Yang-Mills equations over Riemann surfaces", Atiyah and Bott studied Yang-Mills functional over a Riemann surface from the point of view of Morse theory. In "Yang-Mills Connections on Nonorientable Surfaces", the authors study Yang-Mills functional on the space of connections on a principal  $G_{\mathbb{R}}$ -bundle over a closed, connected, nonorientable surface, where  $G_{\mathbb{R}}$  is any compact connected Lie group. In this monograph, the authors generalize the discussion in "The Yang-Mills equations over Riemann surfaces" and "Yang-Mills Connections on Nonorientable Surfaces". They obtain explicit descriptions of equivariant Morse stratification of Yang-Mills functional on orientable and nonorientable surfaces for non-unitary classical groups  $SO(n)$  and  $Sp(n)$ .

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Yang-Mills  $Sp(n)$ -connections

Appendix A. Remarks on Laumon-Rapoport formula

Bibliography