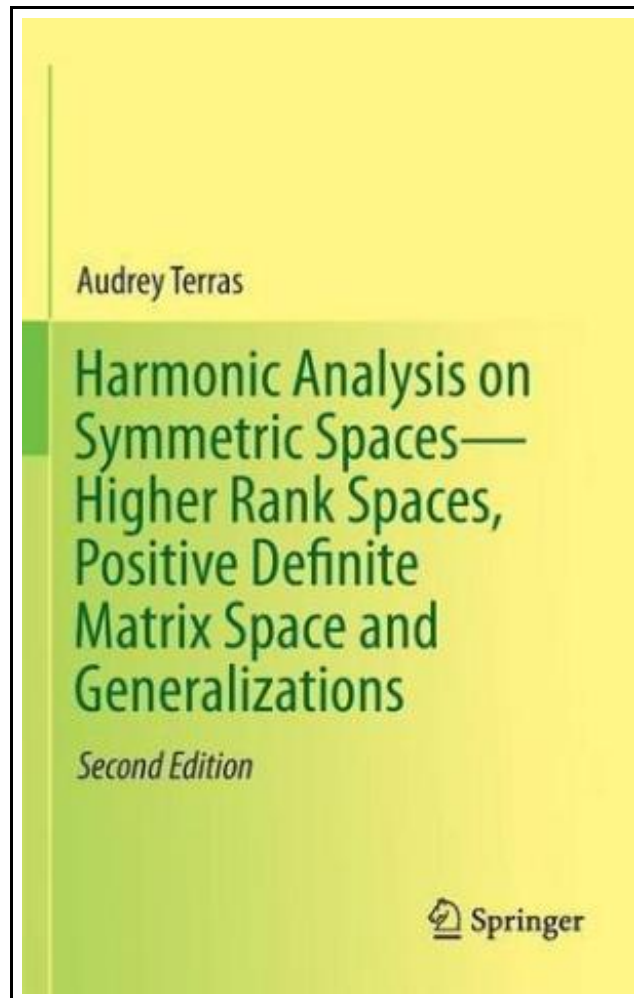


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Springer-Verlag New York Inc., United States, 2016. Hardback. Book Condition: New. 2nd Revised edition. 235 x 155 mm. Language: English . Brand New Book. This text is an introduction to harmonic analysis on symmetric spaces, focusing on advanced topics such as higher rank spaces, positive definite matrix space and generalizations. It is intended for beginning graduate students in mathematics or researchers in physics or engineering. As with the introductory book entitled Harmonic Analysis on Symmetric Spaces - Euclidean Space, the Sphere, and the Poincare Upper Half Plane, the style is informal with an emphasis on motivation, concrete examples, history, and applications. The symmetric spaces considered here are quotients  $X=G/K$ , where  $G$  is a non-compact real Lie group, such as the general linear group  $GL(n,P)$  of all  $n \times n$  non-singular real matrices, and  $K=O(n)$ , the maximal compact subgroup of orthogonal matrices. Other examples are Siegel's upper half plane and the quaternionic upper half plane . In the case of the general linear group, one can identify  $X$  with the space  $P_n$  of  $n \times n$  positive definite symmetric matrices. Many corrections and updates have been incorporated in this new edition. Updates include discussions of random matrix theory and quantum chaos, as well as recent research on modular forms and their corresponding L-functions in higher rank. Many applications have been added, such as the solution of the heat equation on  $P_n$ , the central limit theorem of Donald St. P. Richards for  $P_n$ , results on densest lattice packing of spheres in Euclidean space, and  $GL(n)$ -analogs of the Weyl law for eigenvalues of the Laplacian in plane domains. Topics featured throughout the text include inversion formulas for Fourier transforms, central limit theorems, fundamental domains in  $X$  for discrete groups  $\Gamma$  (such as the modular group  $GL(n,Z)$  of  $n \times n$  matrices with...

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