## FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

## SURFACE SUBGROUPS OF 3-MANIFOLD GROUPS

## By

## MOHAMMAD AAMIR RASHEED

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Mohammad Aamir Rasheed defended this dissertation on April 17, 2019. The members of the supervisory committee were:	
	Wolfgang Heil
	Professor Directing Dissertation
	Horst Wahl
	University Representative
	Philip Bowers
	Committee Member
	Samuel Ballas
	Committee Member
The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.	