

# CONTENTS

Vol. 8, No. 2

June, 1964

	Page
The hypercenter of functorially defined subgroups	
By REINHOLD BAER. . . . .	177
Noethersche Gruppen mit endlicher Hyperzentrumfaktorgruppe	
By HERMANN SIMON. . . . .	231
Noethersche Gruppen mit nilpotenten Normalteilern von endlichem Index	
By HERMANN SIMON. . . . .	241
A note on the Borel-Cantelli lemma	
By SIMON KOCHEN and CHARLES STONE. . . . .	248
Balanced incomplete block designs and Abelian difference sets	
By H. B. MANN. . . . .	252
Free subgroups and normal subgroups of the modular group	
By MORRIS NEWMAN. . . . .	262
Equivalence classes of periodic sequences	
By ROBERT C. TITSWORTH. . . . .	266
Likelihood ratios for stochastic processes related by groups of transformations II	
By T. S. PITCHER. . . . .	271
On $H$ -spaces that are CW-complexes I	
By RONALD C. O'NEILL. . . . .	280
On the de Rham decomposition theorem	
By H. WU. . . . .	291
On the measurability of stochastic processes	
By MARK MAHOWALD. . . . .	312
Generalized branching processes I: Existence and uniqueness theorems	
By P. E. NEY. . . . .	316
Generalized branching processes II: Asymptotic theory	
By P. E. NEY. . . . .	332
Metrizability of certain countable unions	
By H. H. CORSON and E. MICHAEL. . . . .	351

---

Published by the University of Illinois Press in March, June, September, and December. Supported in part by the George A. Miller Endowment. Printed by Waverly Press, Baltimore, Maryland.

The subscription price is \$9.00 a volume (four numbers); this is reduced to \$5.00 for individual members of the American Mathematical Society. The price of a single number is \$3.00. Subscriptions should be sent to the University of Illinois Press, Urbana, Illinois.