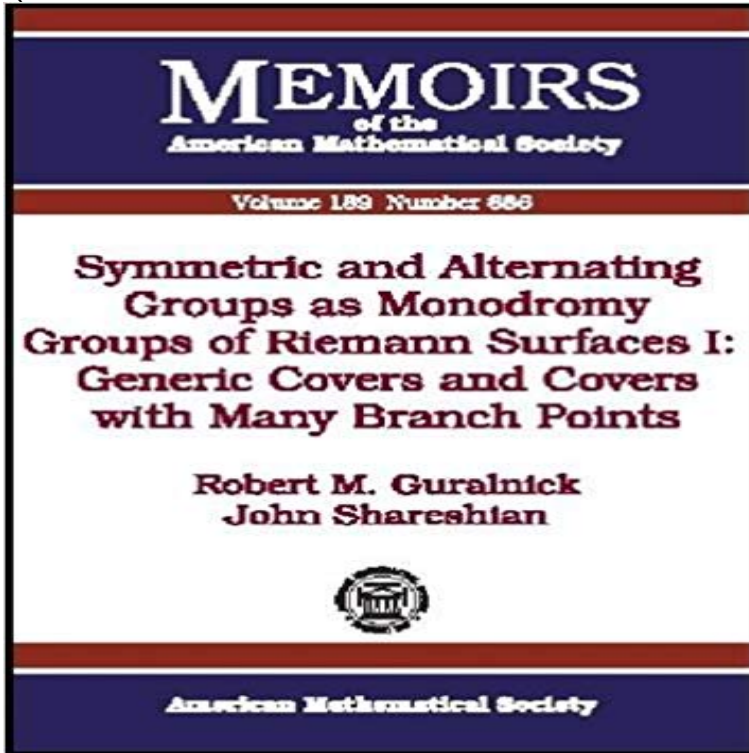


Symmetric and Alternating Groups As Monodromy Groups of Riemann Surfaces 1: Generic Covers and Covers With Many Branch Points (Memoirs of the American Mathematical Society)



The authors consider indecomposable degree n covers of Riemann surfaces with monodromy group an alternating or symmetric group of degree d . They show that if the cover has five or more branch points then the genus grows rapidly with n unless either $d = n$ or the curves have genus zero, there are precisely five branch points and $n = d(d-1)/2$. Similarly, if there is a totally ramified point, then without restriction on the number of branch points the genus grows rapidly with n unless either $d = n$ or the curves have genus zero and $n = d(d-1)/2$. One consequence of these results is that if $f: X \rightarrow \mathbb{P}^1$ is indecomposable of degree n with X the generic Riemann surface of genus $g \geq 4$, then the monodromy group is S_n or A_n (and both can occur for n sufficiently large). The authors also show that if $f(x)$ is an indecomposable rational function of degree n branched at g or more points, then its monodromy group is A_n or S_n . Finally, they answer a question of Elkies by showing that the curve parameterizing extensions of a number field given by an irreducible trinomial with Galois group H has large genus unless $H = A_n$ or S_n or n is very small.

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