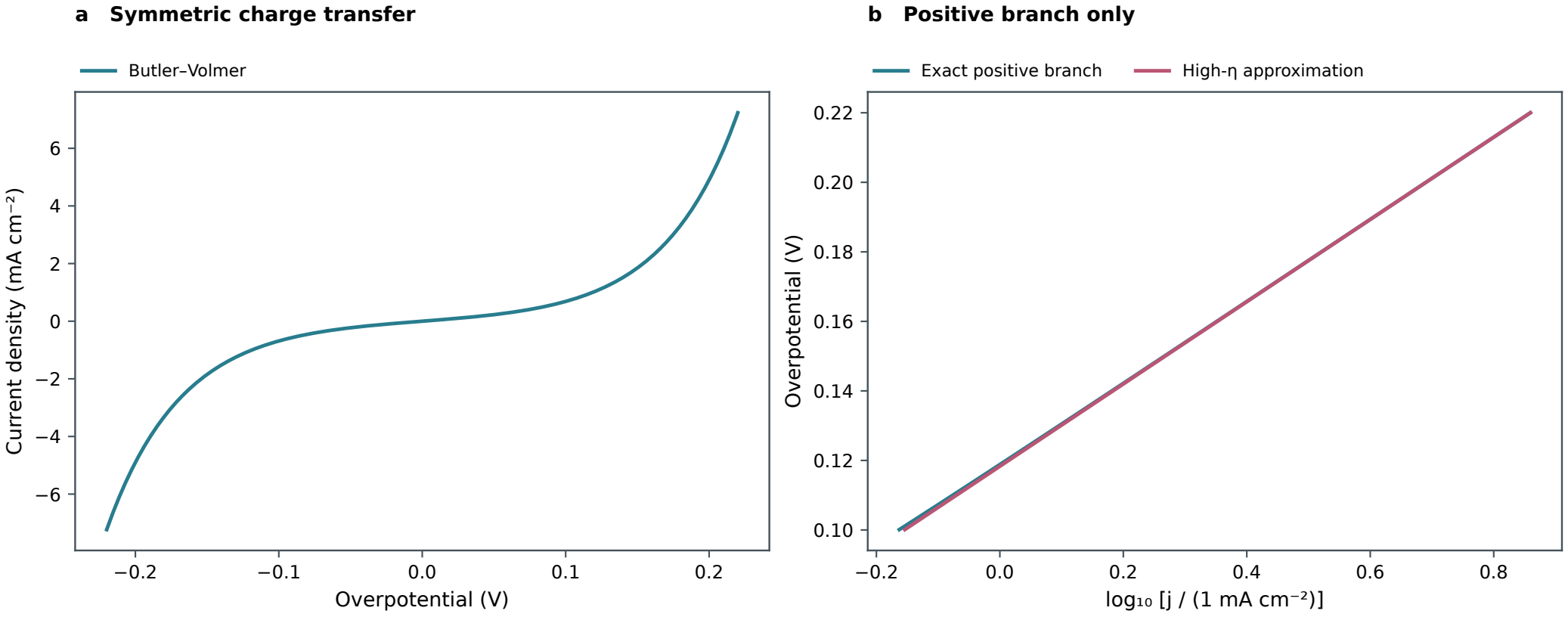

a Symmetric charge transfer
Butler–Volmer
Current density (mA cm⁻²)
6
4
2
0
−2
−4
−6
−0.2
−0.1
0.0
0.1
0.2
Overpotential (V)
b Positive branch only
Exact positive branch
High-η approximation
Overpotential (V)
0.22
0.20
0.18
0.16
0.14
0.12
0.10
−0.2
0.0
0.2
0.4
0.6
0.8
log₁₀ [j / (1 mA cm⁻²)]