$$\iint d\psi d\chi \left\{ \frac{JB^2}{R^2 B_p^2} \left| k_{\|} X \right|^2 + \frac{R^2 B_p^2}{JB^2} \left| \frac{1}{n} \frac{\partial}{\partial \psi} \left(JB \right. \right. \right.$$

$$\frac{2J}{B^2} \frac{dp}{d\psi} \left[|X|^2 \frac{\partial}{\partial \psi} \left(p + \frac{B^2}{2} \right) - \frac{iF}{JB^2} \frac{\partial}{\partial \chi} \left(\frac{B^2}{2} \right. \right.$$

$$\frac{X^*}{n} JBk_{\|} \left(X \frac{d\sigma}{d\psi} \right) + \frac{1}{n} \left[PJBk_{\|}^* Q^* + P^* JBk_{\|} Q \right.$$

$$\left. \left. \left. \frac{\partial}{\partial \psi} \left[\frac{\sigma}{n} X^* JBk_{\|} X \right] \right\} \right. \right. \right.$$