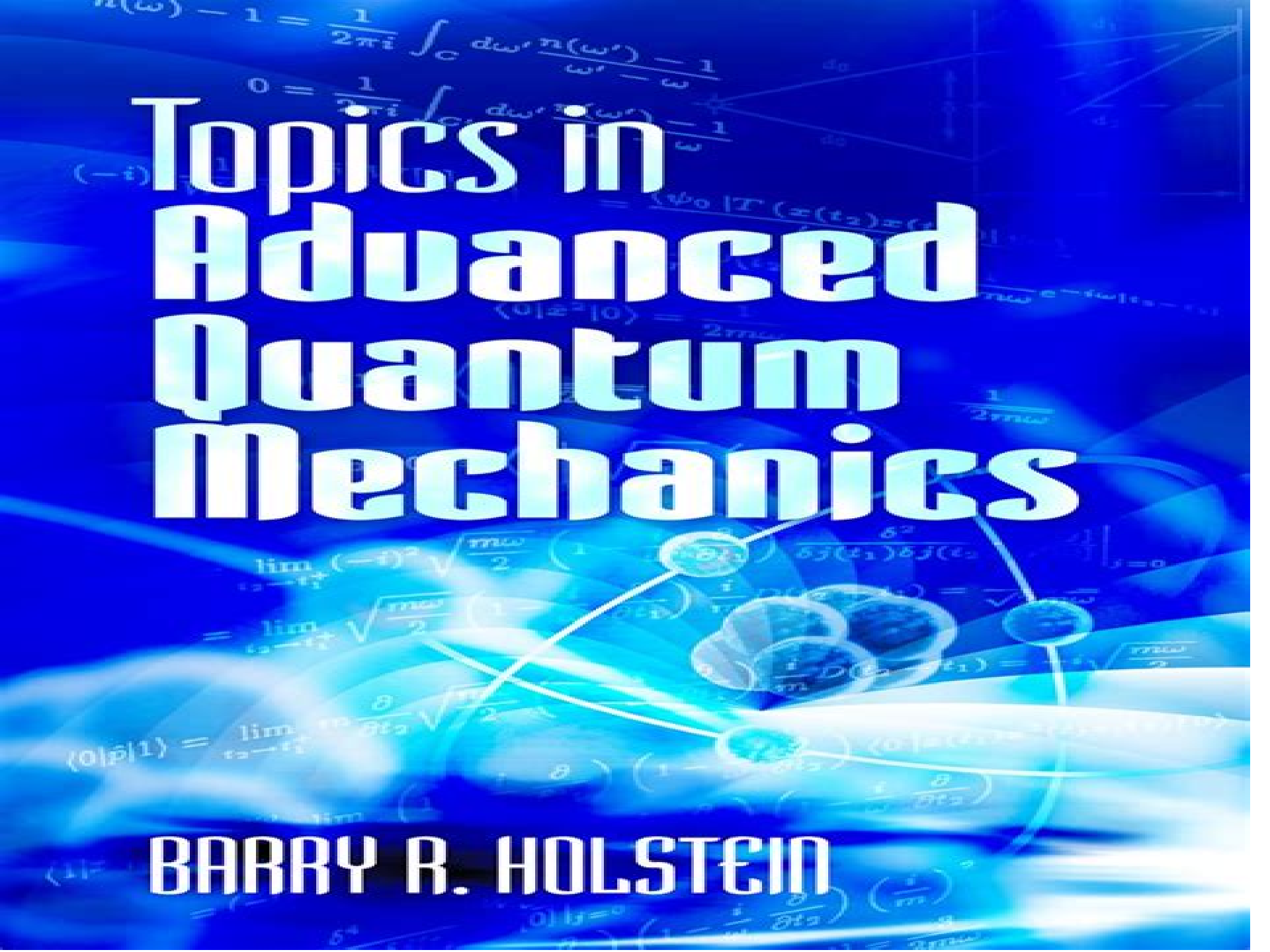


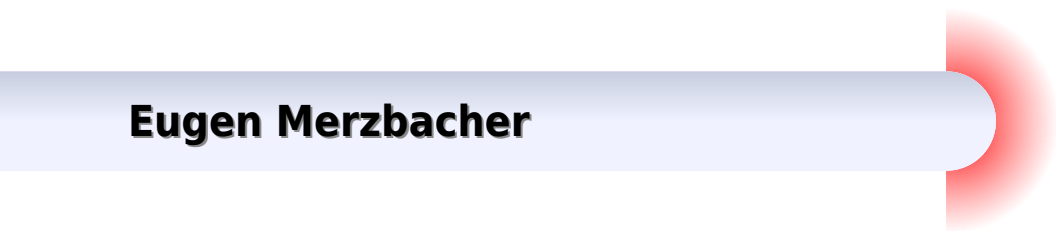
The background is a vibrant blue with a complex network of white lines and nodes, resembling a quantum circuit or a mathematical graph. Overlaid on this are various mathematical formulas in white and light blue. At the top, there's a formula $n(\omega) - 1 = \frac{1}{2\pi i} \int_C d\omega' \frac{n(\omega') - 1}{\omega' - \omega}$. Below it, another similar formula. To the right, a diagram with nodes d_0, d_1, d_2 and arrows. In the center, a formula $\langle 0 | x^2 | 0 \rangle = \frac{1}{2m\omega}$. To the right, $\frac{1}{2m\omega}$. Below that, $\lim_{t_2 \rightarrow t_1^+} (-i)^2 \sqrt{\frac{m\omega}{2}}$ and $\lim_{t_2 \rightarrow t_1^+} \sqrt{\frac{m\omega}{2}}$. To the left, $\langle 0 | \hat{p} | 1 \rangle = \lim_{t_2 \rightarrow t_1^+} \frac{\partial}{\partial t_2} \sqrt{\frac{m\omega}{2}}$. In the center, a diagram with nodes $\frac{\partial}{\partial t_2}$ and $\frac{\partial}{\partial t_1}$ connected by lines. To the right, $\frac{\delta^2}{\delta \beta(t_2) \delta \beta(t_1)}$ and $\frac{\partial}{\partial t_2}$. At the bottom, $\langle 0 | x(t_2) x(t_1) | 0 \rangle$ and $\frac{\partial}{\partial t_2}$.

Topics in Advanced Quantum Mechanics

BARRY R. HOLSTEIN

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