Multiparticle Creation Operator
Wholeness Chart 10-2, pg 283

In the second and third rows, insert factors below with square roots in denominators.

$\left\|\phi_q,\phi_r,...\right\rangle = \left(C_q C_r..\right)\left\|0\right\rangle$ $= \left(\sum_{\mathbf{k}} \frac{A_{q\mathbf{k}}}{\sqrt{n_{q\mathbf{k}}+1}} a^\dagger(\mathbf{k})\right)\left(\sum_{\mathbf{k}} \frac{A_{r\mathbf{k}}}{\sqrt{n_{r\mathbf{k}}+1}} a^\dagger(\mathbf{k})\right)(...)\left\|0\right\rangle$ $= \left\|\sum_{\mathbf{k}} A_{q\mathbf{k}} \frac{e^{-ikx_q}}{\sqrt{V}}, \sum_{\mathbf{k}} A_{r\mathbf{k}} \frac{e^{-ikx_r}}{\sqrt{V}}, ..\right\rangle$ where $n_{q\mathbf{k}}$ (or $n_{r\mathbf{k}}$,...)= number of $\mathbf{k}$ momentum particles in ket when C_q (or C_r,..) operates	$\left\|\phi_q,\phi_r,...\right\rangle = \left(C_q C_r..\right)\left\|0\right\rangle$ $= \left(\int \frac{A_q(\mathbf{k})}{\sqrt{n_{q\mathbf{k}}+1}} a^\dagger(\mathbf{k}) d^3k\right)\left(\int \frac{A_r(\mathbf{k})}{\sqrt{n_{r\mathbf{k}}+1}} a^\dagger(\mathbf{k}) d^3k\right)(..)\left\|0\right\rangle$ $= \left\|\int A_q(\mathbf{k}) \frac{e^{-ikx_q}}{\sqrt{(2\pi)^3}} d^3k, \int A_r(\mathbf{k}) \frac{e^{-ikx_r}}{\sqrt{(2\pi)^3}} d^3k, ..\right\rangle$
$C_q = \sum_{\mathbf{k}} \frac{A_{q\mathbf{k}}}{\sqrt{n_{q\mathbf{k}}+1}} a^\dagger(\mathbf{k})$	$C_q = \int \frac{A_q(\mathbf{k})}{\sqrt{n_{q\mathbf{k}}+1}} a^\dagger(\mathbf{k}) d^3k$