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Turkish Journal	Single Mode Optical Radiation Distribution and Reflectivity Calculations in Novel-Hot Electron Light Emission and Lasing In Semiconductor Heterostructures VCSELs
of	
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Authors	<u>Abstract:</u> In this work, we calculate the power reflectivity in vertical cavity surface emitting lasers (VCSELs) using a new method. In VCSELs, the stop band of the reflectivity spectrum should exhibit a dip at the lasing wavelength, which is a condition for lasing. This current approximation method gives a simple analytical expression to find the power reflectivity as a function of wavelength in the vicinity of lasing wavelength, $\bullet_{o}$ . The proposed method can generally be applied to semiconductor VCSEL systems
0	for a given lasing wavelength.
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