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introduction to modulation transfer function edmund optics May 31 2020 figure 8 shows polychromatic diffraction mtf for these two lenses depending upon the testing conditions both lenses can yield equivalent performance in this particular example both are trying to resolve group 2 elements 5 6 indicated by the red boxes in figure 10 and group 3 elements 5 6 indicated by the blue boxes in figure 10 on a 1951 usaf resolution target

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wave can be described just like a field namely as a function where is a position and is a time the value of is a point of space specifically in the region where the wave is defined in mathematical terms it is usually a vector in the cartesian three dimensional space however in many cases one can ignore one dimension and let be a

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