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The Astrophysical Journal, 1898, Vol. 8 (Classic Reprint)

By American Astronomical Society

Forgotten Books. Paperback. Condition: New. This item is printed on demand. 354 pages. Dimensions: 9.0in. x 6.0in. x 0.7in. Excerpt from The Astrophysical Journal, 1898, Vol. 8: But the formula is a cumbersome one. I do not know how many coordinate numbers may be necessary for an ideal chemistry to indicate all the properties of any particular substance, especially to compute the wave-length of every line of its spectrum, but that eight or even six constants of the formula for a series should be independent of one another, I do not believe. However, as long as I lack all knowledge of general relations suitable to reduce the law of series into a simpler form, I shall decidedly prefer a formula which satisfies the observations by means of many constants to one which, with only three or four constants, is unable to represent the observations approximately within the limits of their mean errors. But unfortunately, not many spectra are rich enough in lines to permit the application of so cumbersome an apparatus of calculation, and at the same time not so complicated that it is impossible to separate their series. And of these only a few are sufficiently well known. My knowledge of...



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