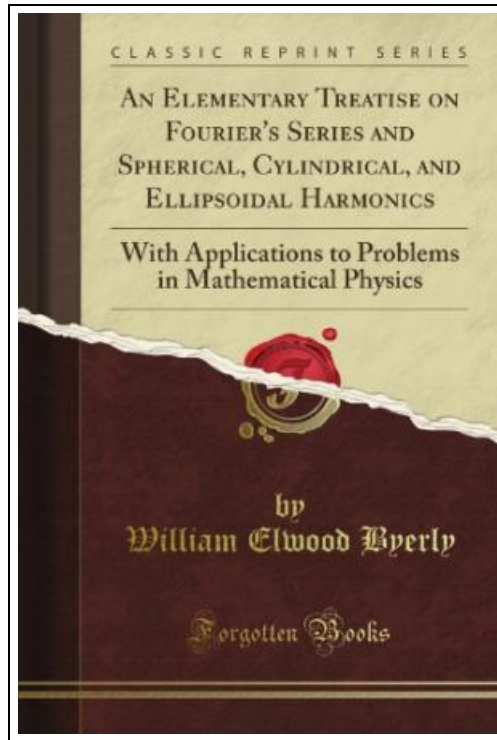


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 226 x 152 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from An Elementary Treatise on Series Spherical About ten years ago I gave a course of lectures on Trigonometric Series, following closely the treatment of that subject in Riemann s Partielle Differentialgleichungen, to accompany a short course on The Potential Function, given by Professor B. O. Peirce. My course has been gradually modified and extended until it has become an introduction to Spherical Harmonics and Bessel s and Lamé s Functions. Two years ago my lecture notes were lithographed by my class for their own use and were found so convenient that I have prepared them for publication, hoping that they may prove useful to others as well as to my own students. Meanwhile, Professor Peirce has published his lectures on The Newtonian Potential Function (Boston, Ginn Co.), and the two sets of lectures form a course (Math. 10) given regularly at Harvard, and intended as a partial introduction to modern Mathematical Physics. Students taking this course are supposed to be familiar with so much of the infinitesimal calculus as is contained in my Differential Calculus (Boston, Ginn Co.) and my Integral Calculus (second edition, same publishers), to which I refer in the present book as Dif. Cal. and Int. Cal. Here, as in the Calculus, I speak of a derivative rather than a differential coefficient, and use the notation  $D_x$  instead of  $\partial / \partial x$  for partial derivative with respect to  $x$ . The course was at first, as I have said, an exposition of Riemann s Partielle Differentialgleichungen. In extending it, I drew largely from Ferrer s Spherical Harmonics and Heine s Kugelfunctionen, and was somewhat indebted to Todhunter ( Functions of Laplace, Bessel, and Lamé ),...



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