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# I N D E X

TO THE

## POPULAR SCIENCE MONTHLY

FOR THE

TWENTY VOLUMES FROM 1872 TO 1882,

AND OF THE

THREE VOLUMES OF THE SUPPLEMENT;

EMBRACING

THE TITLES OF THE ARTICLES IN THE SEVERAL DEPARTMENTS  
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## P R E F A C E .

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IN the opening number of this magazine the object of its publication is thus set forth by the editor: "‘THE POPULAR SCIENCE MONTHLY’ has been started to help on the work of sound public education, by supplying instructive articles on the leading subjects of scientific inquiry. It will contain papers, original and selected, on a wide range of subjects, from the ablest scientific men of different countries, explaining their views to non-scientific people. A magazine is needed here, which shall be devoted to this purpose, for, although much is done by the general press in scattering light articles and shreds of information, yet many scientific discussions of merit and moment are passed by. It is, therefore, thought best to bring this class of contributions together for the benefit of all who are interested in the advance of ideas and the diffusion of valuable knowledge.

“The work of *diffusing* science is, however, as yet, but very imperfectly organized, although it is clearly the next great task of civilization. But the signs are promising. Schools of science are springing up in all enlightened countries, and old educational establishments are yielding to the reformatory spirit, modifying and modernizing their systems of study. There is, besides, a growing sympathy, on the part of men of science of the highest character, with the work of popular teaching, and an increasing readiness to cooperate in undertakings that shall promote it. There is, in fact, growing up a valuable literature of popular science—not the trash that caters to public ignorance, wonder, and prejudice, but able and instructive essays and lectures from men who are authorities upon the subjects which they treat. But the task of systematically disseminating these valuable productions is as yet but imperfectly executed, and we propose to contribute what we can to it in the present publication.”

That the promise then made has been well kept, no one will question, who will familiarize himself with the contents of the twenty volumes now completed. The best efforts of the foremost thinkers and scientific workers have been given a place in its pages, and nowhere else can there be found such a complete record of the intellectual progress of the past decade. The conception of evolution as a universal process throughout all nature, to be discerned alike in the unfolding order of plant and animal life, and in the growth and progress of human society, has been presented from many points of view, and by many writers. But it is chiefly in its bearings upon human life and social development that it has found exposition in the "Monthly," and the discussion, as there presented, is of the greatest value.

The bearing of science upon education has formed the theme of many of the editorials as well as of contributed articles, while its relation to social development has received the elucidation which only the masterly pen of Mr. Spencer can give it.

Science, as presented in the pages of the "Monthly," is very far from being that dry mass of details which so many people imagine it to be. It comprehends the best thought of our time in all departments of inquiry, and has a permanent interest and value to all thinking men.

The index has been made simply a title one, as this seemed sufficient to answer all requirements. In some cases, where the title did not sufficiently indicate the subject-matter of the article, a clearer one has been substituted, the actual title being then placed in quotation-marks. Where the article is a contributed one, the name of the author follows it, and in their proper order there is given a complete list of all the authors who have appeared in the pages of the "Monthly." The departments are in all cases indicated by the appropriate abbreviation, and for convenience of reference the book notices are placed by themselves.

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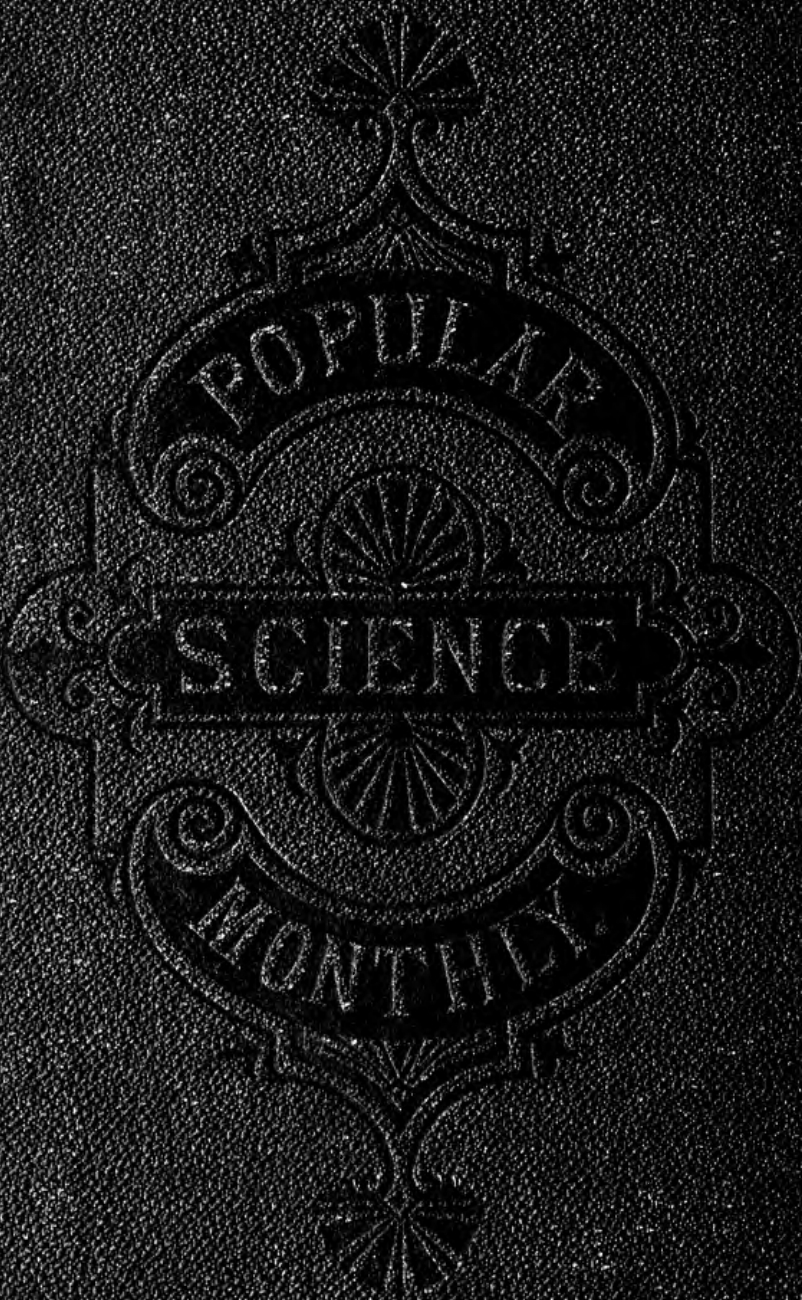




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