

**RESPONSE IN THE  
LIVING AND  
NON-LIVING**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649692545

Response in the Living and Non-Living by Jagadis Chunder Bose

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**JAGADIS CHUNDER BOSE**

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Ch. review of this book by  
"Sci. in Nature" Mar. 5, 1903,  
p. 404

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JAGADIS CHUNDER BOSE, M.A.(CANTAB.), D.Sc.(LOND.)

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WITH ILLUSTRATIONS

LONGMANS, GREEN, AND CO.

39 PATERNOSTER ROW, LONDON

NEW YORK AND BOMBAY

1902

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*'The real is one: wise men call it variously'*

RIG VEDA

*To my Countrymen*

*This Work is Dedicated*



## PREFACE

I HAVE in the present work put in a connected and a more complete form results, some of which have been published in the following Papers :

- 'De la Généralité des Phénomènes Moléculaires produits par l'Electricité sur la matière Inorganique et sur la matière Vivante.' (*Travaux du Congrès International de Physique*. Paris, 1900.)
- 'On the Similarity of Effect of Electrical Stimulus on Inorganic and Living Substances.' (*Report, Bradford Meeting British Association, 1900.—Electrician*.)
- 'Response of Inorganic Matter to Stimulus.' (Friday Evening Discourse, Royal Institution, May 1901.)
- 'On Electric Response of Inorganic Substances. Preliminary Notice.' (Royal Society, June 1901.)
- 'On Electric Response of Ordinary Plants under Mechanical Stimulus.' (*Journal Linnean Society*, 1902.)
- 'Sur la Réponse Electrique dans les Métaux, les Tissus Animaux et Végétaux.' (Société de Physique, Paris, 1902.)
- 'On the Electro-Motive Wave accompanying Mechanical Disturbance in Metals in contact with Electrolyte.' (*Proceedings Royal Society*, vol. 70.)
- 'On the Strain Theory of Vision and of Photographic Action.' (*Journal Royal Photographic Society*, vol. xxvi.)

These investigations were commenced in India, and I take this opportunity to express my grateful acknowledgments to the Managers of the Royal Institution, for the facilities offered me to complete them at the Davy-Faraday Laboratory.

J. C. BOSE.

DAVY-FARADAY LABORATORY, ROYAL INSTITUTION,  
LONDON: *May* 1902.

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