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of Calcutta did me the honour early in 1908 to appoint me Reader, and asked me to deliver a series of lectures upon some subject, preferably electrical, which would be

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of use to the lecturers in the outlying colleges as well as to the more advanced students in Calcutta. It was a condition of the appointment that the

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and it appeared that I  
could best attain these  
ends by attempting to put  
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electromagnetic theory into a connected and convenient form. It is therefore chiefly in the mode of presentation, rather than in the subject matter, that any

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originality which the lectures may possess must be sought. For the material I am very largely indebted to the writings of H. A. Lorentz, while some features in the

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waves. It is the translated and revised edition of the Chinese version with the same title published by the Publishing House of Electronic Industry (PHEI)



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of China in 1994. The text is based on the graduate course lectures on "Advanced Electrodynamics" given by the authors at Tsinghua University. More than 300

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students from the Department of Electronic Engineering and the Department of Applied Physics have taken this course during the last decade. Their particular fields

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are microwave and millimeterwave theory and technology, physical electronics, optoelectronics and engineering physics. As the title of the book

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shows, the texts and examples in the book concentrate mainly on electromagnetic theory related to microwaves and optoelectronics, or light wave technology. However,

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of the displacement current  
and the electromagnetic  
character of light.

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ago, only a few scholars were capable of understanding his conceptually demanding work. Yet this esoteric knowledge quickly became accessible in the nineteenth and early twentieth centuries when

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flight of a boomerang to the structure of the universe. Warwick focuses on Cambridge University, where many of the best physicists trained. He begins by tracing the dramatic changes in undergraduate education



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there since the eighteenth century, especially the gradual emergence of the private tutor as the most important teacher of mathematics. Next he explores the material culture of mathematics

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instruction, showing how the humble pen and paper so crucial to this study transformed everything from classroom teaching to final examinations. Balancing their intense intellectual work with strenuous physical

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exercise, the students themselves—known as the "Wranglers"—helped foster the competitive spirit that drove them in the classroom and informed the Victorian ideal of a manly student. Finally, by investigating

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