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About this book Published by the American Geophysical Union as part of the Special Publications Series. Physics of the aurora and airglow is a diversified subject, and this characteristic is, I think, the secret of its charm. But it is growing up in an age when physicists must necessarily specialize in narrow fields of interest.

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These include the electromagnetic radiation of the ``aurora borealis'' and ``aurora australis'' (the ``northern'' and ``southern lights'', respectively), enhanced ionization and conductivity in the auroral ionosphere due to impact ionization processes, enhanced particle precipitation, and the rapidly varying magnetic fields associated with currents flowing in the auroral electrojet regions of the ionosphere.

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Developed especially for university professors and students in the fields of physics and astronomy, this module includes sections on the history, lore, and science of the aurora, the magnetosphere, the thermosphere-ionosphere, basic electromagnetism, and upper-atmospheric physics.

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