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Aluminum and Its Surface Films James Paul Landry

a complete basic undergraduate course in modern optics for students in physics technology and engineering the first half deals with classical physical optics the second quantum nature of light solutions

this textbook introduces the advanced topics of i wireless communications ii free space optical fso communications iii indoor optical wireless ir communications and iv fiber optics communications and presents these different types of communication systems in a unified fashion for better practical use fundamental concepts such as propagation principles modulation formats channel coding diversity principles mimo signal processing multicarrier modulation equalization adaptive modulation and coding detection principles and software defined transmission are first described and then followed up with a detailed look at each particular system the book is self contained and structured to provide straightforward guidance to readers looking to capture fundamentals and gain theoretical and practical knowledge about wireless communications optical communications and fiber optics communications all which can be readily applied in studies research and practical applications the textbook is intended for an upper undergraduate or graduate level course in optical communication it features problems an appendix with all background material needed and homework

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