CONTENTS

Introduction					
CHAPTER ONE					
THE PHYSICAL MODEL					
1. The Radiative-transfer Model	5				
2. The Classical Transport Equation					
3. Invariant Imbedding					
4. Discussion	9				
CHAPTER TWO CONCRIGE ATTION AT TECHNICITIES					
COMPUTATIONAL TECHNIQUES					
1. Gaussian Quadrature	11				
2. Zeros of Legendre Polynomials; Christoffel Numbers	12				
3. Approximate System of Differential Equations					
4. The Computational Method	15				
5. Computational Results					
CHAPTER THREE					
ANALYTIC ASPECTS					
1. Existence and Uniqueness—I	21				
2. Existence and Uniqueness—II					
3. The Reduced Equation					

4.	Successive Approximations	23						
5.	Monotonicity	23						
6.	Limiting Behavior as $x \to \infty$	24						
7.	Convergence	24						
8.	Some Open Questions	25						
	CHAPTER FOUR							
CHAPTER FOUR COMPUTATIONAL RESULTS								
1.	Typical Reflection Functions	27						
2.	Comparison with Ambarzumian's Results	28						
3.	Comparison with Chandrasekhar's Results	29						
4.	Additional Checks	30						
202								
Re	ferences	33						
Аp	pendix	37						
5726 44		90 420103						