

Contents

Citation Information vii
Notes on Contributors ix

PART I: INTRODUCTION

Emerging technologies and international stability 3
Todd S. Sechser, Neil Narang and Caitlin Talmadge

PART II: COMPETITION AND COERCION IN THE TECHNOLOGICAL AGE

- 1 The capability/vulnerability paradox and military revolutions:
Implications for computing, cyber, and the onset of war 21
Jacquelyn Schneider
- 2 Cheap fights, credible threats: The future of armed drones
and coercion 44
Amy Zegart
- 3 Extended deterrence and assurance in an emerging technology
environment 85
Rupal N. Mehta

PART III: CRISIS, CONFLICT, AND WAR

- 4 Blood and robots: How remotely piloted vehicles and related
technologies affect the politics of violence 113
Erik Gartzke
- 5 When speed kills: Lethal autonomous weapon systems,
deterrence and stability 144
Michael C. Horowitz

- 6 Emerging technology and intra-war escalation risks: Evidence from the Cold War, implications for today 169
Caitlin Talmadge

PART IV: OFFENSE, DEFENSE, AND STABILITY

- 7 Asymmetric arms control and strategic stability: Scenarios for limiting hypersonic glide vehicles 195
Heather Williams
- 8 Dual-use distinguishability: How 3D-printing shapes the security dilemma for nuclear programs 220
Tristan A. Volpe
- 9 How does the offense-defense balance scale? 247
Ben Garfinkel and Allan Dafoe

PART V: LESSONS LEARNED AND FUTURE DIRECTIONS

- 10 Conclusion 277
Lawrence Rubin and Adam N. Stulberg
- Index* 291