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8. Frames, Young tableaux, and Baxter sequences, *Adv. Math.* **26**, 275–289 (1977) 107  
*G. P. Thomas*
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*D. E. White*

## SECTION 2: INVARIANT THEORY

10. Invariant theory, Young bitableaux, and combinatorics, *Adv. Math.* **27**, 63–92 (1978) 133  
*J. Désarménien, J. P. S. Kung, and G.-C. Rota*
11. Skew-symmetric invariant theory, *Adv. Math.* **21**, 196–201 (1976) 163  
*P. Doubilet and G.-C. Rota*
12. A characteristic free approach to invariant theory, *Adv. Math.* **21**, 330–354 (1976) 169  
*C. De Concini and C. Procesi*

## SECTION 3: ALGEBRA

13. Letter place algebras and a characteristic-free approach to the representation theory of the general linear and symmetric groups, I and II, *Adv. Math.* **33**, 161–191 (1979); **38**, 152–177 (1980) 197  
*M. Clausen*
14. Young diagrams and ideals of Pfaffians, *Adv. Math.* **35**, 158–178 (1980) 255  
*S. Abeasis and A. Del Fra*
15. On the variety of complexes, *Adv. Math.* **41**, 57–77 (1981) 277  
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16. Syzygies des variétés déterminantales, *Adv. Math.* **30**, 202–237 (1978) 299  
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